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OK protein - protein search, using SW model

Run on: March 15, 2004, 07:38:19; Search time 53 seconds

Title: US-09-620-955b-4
Sequence: 1 GAGACGAAVAGSPPQSSTIT.....CSFAASAPLPGGAKKVVTV 109
Without alignments
561,989 million cells updates/sec

Partner score: 109

Scoring table: GATCO
Gapop 60.0, Gapext 60.0

Word size: 0

Total number of hits satisfying chosen parameters: 516823

Minimum DB seq length: 109

Maximum DB seq length: 109

Post-processing: listing files 100 summaries

Database: 1. Genesep2367041*

2. genesep2367041*

3. genesep2367041*

4. genesep2367041*

5. genesep2367041*

6. genesep2367041*

7. genesep2367041*

8. genesep2367041*

Prod. No. is the number of results predicted by chance to have a score as high as the one observed. The score is printed, and a score derived by analysis of the total score distribution.

SNOMEDS

Result No.	Score	Match	Length	DB ID	Description
1	10.1	100	109	AB016502	Ab016502 Huntingt
2	10.1	100	109	AB016502	Ab016502 Huntingt
3	10.1	100	109	AB016502	Ab016502 Huntingt
4	10.1	100	109	AB016502	Ab016502 Huntingt
5	10.1	100	109	AB016502	Ab016502 Huntingt
6	10.1	100	109	AB016502	Ab016502 Huntingt
7	10.1	100	109	AB016502	Ab016502 Huntingt
8	10.1	100	109	AB016502	Ab016502 Huntingt
9	10.1	100	109	AB016502	Ab016502 Huntingt
10	10.1	100	109	AB016502	Ab016502 Huntingt
11	10.1	100	109	AB016502	Ab016502 Huntingt
12	10.1	100	109	AB016502	Ab016502 Huntingt
13	10.1	100	109	AB016502	Ab016502 Huntingt
14	10.1	100	109	AB016502	Ab016502 Huntingt
15	10.1	100	109	AB016502	Ab016502 Huntingt
16	10.1	100	109	AB016502	Ab016502 Huntingt
17	10.1	100	109	AB016502	Ab016502 Huntingt
18	10.1	100	109	AB016502	Ab016502 Huntingt
19	10.1	100	109	AB016502	Ab016502 Huntingt
20	10.1	100	109	AB016502	Ab016502 Huntingt
21	10.1	100	109	AB016502	Ab016502 Huntingt
22	10.1	100	109	AB016502	Ab016502 Huntingt
23	10.1	100	109	AB016502	Ab016502 Huntingt
24	10.1	100	109	AB016502	Ab016502 Huntingt
25	10.1	100	109	AB016502	Ab016502 Huntingt
26	10.1	100	109	AB016502	Ab016502 Huntingt
27	10.1	100	109	AB016502	Ab016502 Huntingt
28	10.1	100	109	AB016502	Ab016502 Huntingt
29	10.1	100	109	AB016502	Ab016502 Huntingt
30	10.1	100	109	AB016502	Ab016502 Huntingt
31	10.1	100	109	AB016502	Ab016502 Huntingt
32	10.1	100	109	AB016502	Ab016502 Huntingt
33	10.1	100	109	AB016502	Ab016502 Huntingt
34	10.1	100	109	AB016502	Ab016502 Huntingt
35	10.1	100	109	AB016502	Ab016502 Huntingt
36	10.1	100	109	AB016502	Ab016502 Huntingt
37	10.1	100	109	AB016502	Ab016502 Huntingt
38	10.1	100	109	AB016502	Ab016502 Huntingt
39	10.1	100	109	AB016502	Ab016502 Huntingt
40	10.1	100	109	AB016502	Ab016502 Huntingt
41	10.1	100	109	AB016502	Ab016502 Huntingt
42	10.1	100	109	AB016502	Ab016502 Huntingt
43	10.1	100	109	AB016502	Ab016502 Huntingt
44	10.1	100	109	AB016502	Ab016502 Huntingt
45	10.1	100	109	AB016502	Ab016502 Huntingt
46	10.1	100	109	AB016502	Ab016502 Huntingt
47	10.1	100	109	AB016502	Ab016502 Huntingt
48	10.1	100	109	AB016502	Ab016502 Huntingt
49	10.1	100	109	AB016502	Ab016502 Huntingt
50	10.1	100	109	AB016502	Ab016502 Huntingt
51	10.1	100	109	AB016502	Ab016502 Huntingt
52	10.1	100	109	AB016502	Ab016502 Huntingt
53	10.1	100	109	AB016502	Ab016502 Huntingt
54	10.1	100	109	AB016502	Ab016502 Huntingt
55	10.1	100	109	AB016502	Ab016502 Huntingt
56	10.1	100	109	AB016502	Ab016502 Huntingt
57	10.1	100	109	AB016502	Ab016502 Huntingt
58	10.1	100	109	AB016502	Ab016502 Huntingt
59	10.1	100	109	AB016502	Ab016502 Huntingt
60	10.1	100	109	AB016502	Ab016502 Huntingt
61	10.1	100	109	AB016502	Ab016502 Huntingt
62	10.1	100	109	AB016502	Ab016502 Huntingt
63	10.1	100	109	AB016502	Ab016502 Huntingt
64	10.1	100	109	AB016502	Ab016502 Huntingt
65	10.1	100	109	AB016502	Ab016502 Huntingt
66	10.1	100	109	AB016502	Ab016502 Huntingt
67	10.1	100	109	AB016502	Ab016502 Huntingt
68	10.1	100	109	AB016502	Ab016502 Huntingt
69	10.1	100	109	AB016502	Ab016502 Huntingt
70	10.1	100	109	AB016502	Ab016502 Huntingt
71	10.1	100	109	AB016502	Ab016502 Huntingt
72	10.1	100	109	AB016502	Ab016502 Huntingt
73	10.1	100	109	AB016502	Ab016502 Huntingt
74	10.1	100	109	AB016502	Ab016502 Huntingt
75	10.1	100	109	AB016502	Ab016502 Huntingt
76	10.1	100	109	AB016502	Ab016502 Huntingt
77	10.1	100	109	AB016502	Ab016502 Huntingt
78	10.1	100	109	AB016502	Ab016502 Huntingt
79	10.1	100	109	AB016502	Ab016502 Huntingt
80	10.1	100	109	AB016502	Ab016502 Huntingt
81	10.1	100	109	AB016502	Ab016502 Huntingt
82	10.1	100	109	AB016502	Ab016502 Huntingt
83	10.1	100	109	AB016502	Ab016502 Huntingt
84	10.1	100	109	AB016502	Ab016502 Huntingt
85	10.1	100	109	AB016502	Ab016502 Huntingt
86	10.1	100	109	AB016502	Ab016502 Huntingt
87	10.1	100	109	AB016502	Ab016502 Huntingt
88	10.1	100	109	AB016502	Ab016502 Huntingt
89	10.1	100	109	AB016502	Ab016502 Huntingt
90	10.1	100	109	AB016502	Ab016502 Huntingt
91	10.1	100	109	AB016502	Ab016502 Huntingt
92	10.1	100	109	AB016502	Ab016502 Huntingt
93	10.1	100	109	AB016502	Ab016502 Huntingt
94	10.1	100	109	AB016502	Ab016502 Huntingt
95	10.1	100	109	AB016502	Ab016502 Huntingt
96	10.1	100	109	AB016502	Ab016502 Huntingt
97	10.1	100	109	AB016502	Ab016502 Huntingt
98	10.1	100	109	AB016502	Ab016502 Huntingt
99	10.1	100	109	AB016502	Ab016502 Huntingt

ALIGNMENTS

RESUME 1
 AB69602
 ID AB69602 standard; protein; 109 AA.
 XX
 XX AB69602;
 XX
 DT 30-APR-2001 (first entry)
 XX
 XX Huntingtin animal spv binding region 52.
 XX
 XX Neurological disorder; Huntington's disease; Alzheimer's disease;
 XX neurodegenerative disease; dementia; chorea; Huntington's disease;
 XX amyotrophic lateral sclerosis; spinal and bulbar muscular atrophy;
 XX deuterocal-pallidoluvian atrophy; spinocerebellar ataxia type 1; SCN2;
 XX SCN4; SCN4; SCN5; SCN6; SCN7; protein accumulation; intrabody.
 XX
 XX Unidentified.
 XX
 XX WC00106989-42.
 XX
 PD 01-FEB-2001.
 XX
 PF 24-JUL-2000; 2000NC-0520131.
 XX
 XX 27-JUL-1999; 99SU-0146047P.
 XX
 PR 21-JUL-2000; 2000US-00620955.
 XX
 XX (HIST/) HUNTON J S.
 XX
 XX (MESS/) MESSER J P.
 XX
 PA (LACE/) LACER J J.
 XX
 XX HUNTON JS, MESSER J, LACER JJ;
 XX
 XX WPI: 2001-182700/18.
 XX
 DR P-9509; AAB9706.
 XX
 PT Inhibiting intracellular polypeptide accumulation, useful for treating
 XX neurological disorders, e.g. Alzheimer's disease, comprises contacting
 XX the polypeptide with a specific intrabody.
 XX
 XX Claim 21; Page 94; 108pp; English.
 XX
 XX The present invention describes a method for inhibiting the formation of
 XX aggregates of certain proteins, involving contacting the protein with a
 XX binding molecule known as an intrabody. Proteins to be bound include
 XX those associated with neurological disorders, and so the method can be
 XX used in the treatment of such diseases. The intrabody can be a single
 XX amino acid, a polypeptide chain, a protein, a protein complex, a small
 XX amyotrophic lateral sclerosis, spinal and bulbar muscular atrophy;
 XX deuterocal-pallidoluvian atrophy; spinocerebellar ataxia type 1;
 XX SCN4; SCN4; SCN5; SCN6; SCN7 and SCN8.
 XX
 SQ Sequence 109 AA;
 XX
 Query Match 100.0%; Score 109; D5 4; Length 109;
 Best Local Similarity 100.0%; Pred. No. 2, 6e-99;
 Matches 109; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 1 Q8ALP0A5VS9SGQSTTISCTGSDGANNVSWQPCQAPLPLTYSVSRPSGI 60
 1 Q8ALP0A5VS9SGQSTTISCTGSDGANNVSWQPCQAPLPLTYSVSRPSGI 60
 DB 61 SNRPBGSQDPAITLISQADADAVYCSFANSGPLFGQGTIVTL 109
 61 SNRPBGSQDPAITLISQADADAVYCSFANSGPLFGQGTIVTL 109
 DB 62 SNRPBGSQDPAITLISQADADAVYCSFANSGPLFGQGTIVTL 109
 62 SNRPBGSQDPAITLISQADADAVYCSFANSGPLFGQGTIVTL 109

DB

RESUME 2
 AB716699
 ID AB716699 standard; protein; 90 AA.
 XX
 XX AB716699;
 XX
 DT 06-MAR-2003 (first entry)
 XX
 XX Antibody library related human protein sequence SEQ ID NO 27.
 XX
 XX Library; recombinant antibody; clustering variable region; *in silico*;
 XX immunogenetics; antibody therapeutic; human.
 XX
 XX Homo sapiens.
 XX
 XX WC0200284277-AL.
 XX
 XX 24-OCT-2002.
 XX
 PF 17-APR-2002; 2002NC-08012202.
 XX
 PR 17-APR-2001; 2001US-0284407P.
 XX
 XX (ABMA/) ABAKIS INC.
 XX
 XX Luo P;
 XX
 WPI: 2003-093043/08.
 XX
 DR 24-FEB-2002.
 XX
 PF 24-FEB-2002.
 XX
 PT Antibody candidates for screening antigens comprises clustering variable
 XX regions of antibodies having known 3-dimensional structures into
 XX structural ensembles.
 XX
 XX The invention relates to a novel method for the construction of a library
 XX of recombinant antibodies. The novel method comprises clustering variable
 XX regions of a collection of antibodies having known 3D structures into ac
 XX least two families of structures with substantially identical main chain
 XX conformations. The method is useful for constructing a library of
 XX artificial antibodies *in silico* which provides a structurally diverse and
 XX yet functionally good binding wide variety of target molecules, such as
 XX peptides and nucleic acids. The libraries constructed are useful as a
 XX source of antibody candidates with a range of antigens and having no or
 XX minimal immunogenicity to human subjects treated with antibody
 XX therapeutics. This sequence represents a human peptide region of an
 XX antibody relating to the novel antibody library construction method of
 XX the invention.
 XX
 SQ Sequence 90 AA;
 XX
 Query Match 25.7%; Score 28; D6 6; Length 90;
 Best Local Similarity 100.0%; Pred. No. 1, 3e-19;
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 1 Q8ALP0A5VS9SGQSTTISCTGSDG 28
 1 Q8ALP0A5VS9SGQSTTISCTGSDG 28

DB

RESUME 3
 AB012681
 ID AB012681 standard; protein; 95 AA.
 XX
 XX AB012681;
 XX
 DT 13-FEB-2002 (first entry)
 XX

XX 01-APR-2003 (first entry)
 XX Human lambda chain 262:342 amino acid sequence #1.
 DB Human lambda chain 262:342 amino acid sequence #1.
 XX Focused library; genetic package; antibody; kappa light chain; CDR;
 KW lambda light chain; heavy chain; complementary determining region;
 XX diversity.
 CC Homo sapiens.
 CC Synthetic.
 OS Homo sapiens.
 XX W020263471-A2.
 XX 08-APR-2002.
 XX 16-DEC-2001; 2001MO-US050297.
 XX 18-DEC-2001; 2000US-02563809.
 XX 18-DEC-2001; 2000US-02563809.
 XX (LADN); LADNR R. C.
 XX Ladder RC;
 XX NP1; 2001-067343/06.
 XX Focused library of vectors or genetic packages for displaying or
 PT expressing diversity of an antibody family; complete variegated DNA
 PT determining regions; kappa or lambda light chain complementing
 PT determining regions.
 XX Disclosure; Page 11-72; 92pp; English.
 XX The present invention describes a focused library of vectors or genetic
 CC packages that display, display and express, or comprise a member of a
 CC diverse family of human antibody related peptides, polypeptides and
 CC portions of the diversity of the antibody family; the vectors or genetic
 CC packages being characterized by variegated DNA sequences that encode a
 CC heavy chain, kappa or lambda light chain complementing determining region
 CC (CDR) of an antibody.
 CC packages of the present invention are useful for displaying, or
 CC displaying and expressing the focused diversity of the family. The
 CC present invention, as compared to prior art, uses a library of vectors
 CC that encode a diverse family of human antibody related peptides, poly-
 CC peptides and portions of the diversity of the antibody family; the vectors
 CC and genetic packages using diverse but focused populations of DNA
 CC sequences. ABB671 to ABB5613 and ABB22680 to ABB22747 represent
 CC sequences used in the exemplification of the present invention.
 XX Sequence 27 AA;
 XX 30
 XX Query Match 21.1%; Score 23; DB 6; Length 27;
 XX Percent Local Similarity 100.0%; Pval. No. 3.9e-15; Indels 0;
 XX Mismatches 23; Conservative 0; Mismatches 0; Indels 0; Caps 0;
 XX 1 GQALTPAVSVSGPGGISTTSC 23
 XX 3 GQALTPAVSVSGPGGISTTSC 25
 XX 14-FEB-2002 (first entry)
 XX Human light chain immunoglobulin framework region 1 #6.
 XX Immunoglobulin antibody; light chain; heavy chain; CDR; FR;
 XX immunoglobulin heavy chain; immunoglobulin light chain; CDR;
 XX transgenic plant; immunoglobulin binding protein array; IgM; IgG; IgA;
 XX 30

XX IgD; IgE; IgY; IgM; kappa; lambda; CDRP.
 XX Homo sapiens.
 CC W020185806-A1.
 XX 08-NOV-2001.
 XX 02-MAY-2001; 2001MO-US01343.
 XX 02-MAY-2001; 2000US-00563222.
 XX (EPIC-) EPICYTE PHARM INC.
 XX BLAT NC; Beta M9;
 XX NP1; 2002-055482/07.
 XX Preparing immunoglobulin binding protein array in plant cells by
 PT transforming the cells with a vector containing a gene for a
 PT preparing array.
 XX Disclosure; Fig 1A; 12pp; English.
 XX The invention relates to transforming a population of cells (e.g. plant
 CC cells), comprising using a library of two different polynucleotides
 CC encoding polypeptides that bind to a ligand or form one or more disulfide bonds
 CC with polypeptides in transfected cells, to generate an IgM that binds to
 CC a ligand, and transformed plant cells are selected, and preparing an IgM
 CC antigenically to a framework region (FR) of a native IgM, IgG, IgA,
 CC IgD, IgE, IgY, kappa or lambda immunoglobulin molecule. The method is
 CC useful for preparing an immunoglobulin binding protein array, preferably
 CC heavy chain (e.g. antibody) or light chain (e.g. antibody) or other eukaryotic
 CC cells (e.g. insect cells or mammalian cells). The CDR is useful for
 CC discovery of a "g" screening assays of ligands having a desired
 CC desired peptide that may be incorporated into an IgM of the invention
 XX Sequence 22 AA;
 XX 30
 XX Query Match 20.4%; Score 22; DB 5; Length 22;
 XX Percent Local Similarity 100.0%; Pval. No. 3.1e-14; Indels 0;
 XX Mismatches 22; Conservative 0; Mismatches 0; Indels 0; Caps 0;
 XX 1 GQALTPAVSVSGPGGISTTSC 22
 XX 1 GQALTPAVSVSGPGGISTTSC 22
 XX ABB2350.
 XX ABB2350 standard; protein; 94 AA.
 XX 21-MAY-1992 (first entry)
 XX Light chain VLE 1 from Iyzozyne binding scFv fragment.
 DB Light chain VLE 1 from Iyzozyne binding scFv fragment.
 XX Fd; bacteriophage; gene 11; filamentous; rhagmadi; capsid; coat; plus;
 XX gpi; binding; adsorption; gene 11; diverse (repetitive);
 KW specific binding pattern; replicable genetic display package; human.
 CC Homo sapiens.
 XX W0201047-A.
 XX 23-JAN-1992.

04-OCT-2001; 2000GB-00024263.
 (MOLFE-) MOLECULAR DYNAMICS INC.
 Pirm SG, Hanzel DK, Chen W, Rank DR;
 WPI; 2001-483467/53.
 Human genes-derived single exon nucleic acid probes useful for analyzing
 gene expression in human fetal liver.
 Claim 27; SEQ ID NO 32093, 633pp. + Sequence Listing; English.
 The invention relates to a single exon nucleic acid probe for measuring
 human gene expression in a sample derived from human fetal liver. The
 single exon nucleic acid probes may be used for predicting, measuring and
 displaying gene expression in samples derived from human fetal liver.
 The invention also relates to a single exon nucleic acid probe of the
 part of the invention. Note: The sequence data for this patent did not form
 part of the printed specification, but was obtained in electronic format
 directly from WPIO at: ftp.wipo.int/pub/published_pat_sequences
 Sequence 97 AA:
 Query Match 19.3%; Score 21; DB 4; Length 97;
 Beat Local Similarity 100.0%; Pred.No. 1.1e-12;
 Matches 21; Conservative 0; Mismatches 0; Gaps 0;
 8 AVSGSGGCGCTTCTCTGCTGSD 28
 1 AATGSGFQGGTCTCTCTGSD 21
 DB
 RESUME 14
 AAM02889
 ID AAM02889 standard; protein; 97 AA.
 XX AAM02889;
 XX
 XX 17-OCT-2001 (first entry)
 XX
 XX Peptide #6926 encoded by probe for measuring placental gene expression.
 XX
 XX Probe; microarray; human; placenta; antenatal diagnosis;
 XX genetic disorder.
 XX Homo sapiens.
 XX
 XX MO200157274-A2.
 XX
 XX 09-AUG-2001.
 XX
 XX 30-JAN-2001; 2001MO-US000663.
 XX
 XX 04-FEB-2001; 2000US-0160312P.
 XX
 XX 26-MAY-2001; 2000US-0207456P.
 XX
 XX 21-AUG-2001; 2000US-0062136P.
 XX
 XX 27-SEP-2001; 2000US-0214687P.
 XX
 XX 04-OCT-2001; 2000US-00024263.
 XX (MOLFE-) MOLECULAR DYNAMICS INC.
 XX
 XX Pirm SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-488939/53.
 XX Human genes-derived single exon nucleic acid probes useful for analyzing
 XX gene expression in human placenta.
 XX
 XX Claim 27; SEQ ID NO 31156; 653pp; English.

CC The present invention relates to single exon nucleic acid probes (SNP;
 CC AAM02889; 2001-483467/53). The present sequence is a peptide encoded by one
 CC such probe. The probes are useful for producing a microarray for
 CC predicting, measuring and displaying gene expression in samples
 CC from human fetal liver.
 CC human genetic disorders
 XX
 XX Sequence 97 AA:
 Query Match 19.3%; Score 21; DB 4; Length 97;
 Beat Local Similarity 100.0%; Pred.No. 1.1e-12;
 Matches 21; Conservative 0; Mismatches 0; Gaps 0;
 8 AVSGSGGCGCTTCTCTGCTGSD 28
 1 AATGSGFQGGTCTCTCTGSD 21
 DB
 RESULT 15
 AAB24161 standard protein; 97 AA.
 AC AAB24161;
 XX 23-JAN-2002 (first entry)
 XX
 XX Human gene expression; heart; microarray; vascular system;
 XX cardiovascular disease; hypertension; cardiac arrhythmia;
 XX congenital heart disease.
 XX Homo sapiens.
 XX
 XX MO200157274-A2.
 XX
 XX 09-AUG-2001.
 XX
 XX 30-JAN-2001; 2001MO-US000666.
 XX
 XX 04-FEB-2001; 2000US-0160312P.
 XX
 XX 26-MAY-2001; 2000US-0207456P.
 XX
 XX 30-JUN-2001; 2000US-0060480P.
 XX
 XX 27-SEP-2001; 2000US-0214687P.
 XX
 XX 04-OCT-2001; 2000US-00024263.
 XX (MOLFE-) MOLECULAR DYNAMICS INC.
 XX
 XX Pirm SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-488939/53.
 XX Single exon nucleic acid probes for analyzing gene expression in human
 XX heart.
 XX
 XX Claim 15; SEQ ID NO 25931; 530pp; English.
 XX
 XX The present invention relates to single exon nucleic acid probes for
 XX measuring human gene expression in a sample derived from human heart (see
 XX AAB21155-AAB41305). The present sequence is a protein encoded by one such
 XX probe. The probes may be used for predicting, measuring and displaying
 XX gene expression in samples derived from the human heart via microarrays.
 XX By measuring gene expression, the probes are useful for predicting,
 XX diagnosing, grading, staging, monitoring and prognosing diseases of the
 XX human heart associated with arrhythmias and congenital heart diseases.
 XX CC specification, but was obtained in electronic format directly from WPIO
 XX at: ftp.wipo.int/pub/published_pat_sequences
 XX
 XX Sequence 97 AA:
 XX

Query Match 19.3% Score 21 DB 4 Length 97
 Best Local Similarity 100.0% Pred. No. 1.1e-12
 Matches 21 Conservative 0 Mismatches 0 Indels 0 Gaps 0

Qy 8 AAVS9SGQSGTTCCTGCTGSD 28
 1 AAVS9SGQSGTTCCTGCTGSD 21

Db 1 AAVS9SGQSGTTCCTGCTGSD 21

RESULT 16
 ID AAVM72656
 AC AAVM72656
 AA AAVM72656 (first entry)
 DT 06-NOV-2001
 DB Human bone marrow expressed probe encoded protein SEQ ID NO: 32962.
 DE Human bone marrow expressed exon: gene expression analysis; probe;
 KM microarray; cancer; leukemia; lymphoma; myeloma.
 OS Homo sapiens.
 PE Penn SQ, Hanzel DK, Chen W, Rank DB;
 PI WPI, 2001-46346/52.
 PS 30-JUN-2001; 2001NO-US000668.
 PP 04-FEB-2000; 2000US-0180312P.
 PR 26-MAY-2000; 2000US-0207435P.
 PR 03-AUG-2000; 2000US-0063216P.
 PR 21-SEP-2000; 2000US-0234689P.
 PR 27-SEP-2000; 2000US-0235359P.
 PR 04-OCT-2000; 2000GB-0024463.
 PP (MOL-) MOLECULAR DYNAMICS INC.
 PS Penn SQ, Hanzel DK, Chen W, Rank DB;
 PI WPI, 2001-46890/33.
 PP Human genome-derived single exon nucleic acid probes useful for analyzing
 gene expression in human bone marrow.
 PS Example 4; SEQ ID NO 32962; 659pp + Sequence Listing; English.
 DE The present invention provides a number of single exon nucleic acid
 probes which are derived from genomic sequences expressed in the human
 bone marrow. They can be used to measure gene expression in brain cell samples,
 such as lymphoma, leukemia and myeloma. The present sequence is a
 protein encoded by one of the probes of the invention

Sequence 97 Aa:
 Query Match 19.3% Score 21 DB 4 Length 97
 Best Local Similarity 100.0% Pred. No. 1.1e-12
 Matches 21 Conservative 0 Mismatches 0 Indels 0 Gaps 0

Qy 8 AAVS9SGQSGTTCCTGCTGSD 28
 1 AAVS9SGQSGTTCCTGCTGSD 21

Qy 8 AAVS9SGQSGTTCCTGCTGSD 28
 1 AAVS9SGQSGTTCCTGCTGSD 21

Db 1 AAVS9SGQSGTTCCTGCTGSD 21

RESULT 18
 ID AAVM4353
 AC AAVM4353
 AA AAVM4353 (first entry)
 DT 25-FEB-2003
 DB Human liver peptide; SEQ ID NO 33001.
 DE Human liver: cirrhosis; hyperlipoproteinemia; hyperlipidemia;
 KM hypercholesterolemia; coronary heart disease.
 OS Homo sapiens.
 PE Penn SQ, Hanzel DK, Chen W, Rank DB;
 PI WPI, 2001-46346/52.
 PS 30-JUN-2001; 2001NO-US000667.
 PP 04-FEB-2000; 2000US-0180312P.
 PR 26-MAY-2000; 2000US-0207435P.
 PR 03-AUG-2000; 2000US-0063216P.
 PR 21-SEP-2000; 2000US-0234689P.
 PR 27-SEP-2000; 2000US-0235359P.
 PR 04-OCT-2000; 2000GB-0024463.
 PP (MOL-) MOLECULAR DYNAMICS INC.
 PS Penn SQ, Hanzel DK, Chen W, Rank DB;
 PI WPI, 2001-46346/52.
 PS Single exon nucleic acid probes for analyzing gene expression in human
 brains.
 PS Example 4; SEQ ID NO 33157; 650pp + Sequence Listing; English.
 DE The present invention provides a number of single exon nucleic acid
 probes which are derived from genomic sequences expressed in the human
 brain. They can be used to measure gene expression in brain cell samples,
 which may enable the diagnosis and improved treatment of nervous system
 diseases such as Alzheimer's disease and Parkinson's disease. The present
 sequence is a protein encoded by one of the probes of the invention

Sequence 97 Aa:
 Query Match 19.3% Score 21 DB 4 Length 97
 Best Local Similarity 100.0% Pred. No. 1.1e-12
 Matches 21 Conservative 0 Mismatches 0 Indels 0 Gaps 0

Qy 8 AAVS9SGQSGTTCCTGCTGSD 28
 1 AAVS9SGQSGTTCCTGCTGSD 21

XX PR 30-JAN-2001; 2001MOL-US600564.
XX CC
XX PR 04-FEB-2001; 2000US-0180312E.
XX PR 26-MAY-2001; 2000US-0207446F.
XX PR 26-MAY-2001; 2000US-0207446F.
XX PR 30-JUN-2001; 2000US-0265216E.
XX PR 21-SEP-2001; 2000US-0234687F.
XX PR 21-SEP-2001; 2000US-0234687F.
XX PR 27-OCT-2001; 2000US-0235359F.
XX PR 04-OCT-2001; 2000GEO-00024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX PM Penn SQ, Hanzel DK, Chen W, Rank DR;
XX WP1; 2001-468889/53.
XX XX
XX Human genes derived using a exon nucleic acid probe useful for analyzing
XX gene expression in human adult liver.
XX CC
XX Claim 27; SEQ ID NO 3301; 65bp; English.
XX CC The invention relates to a single exon nucleic acid probe (SEQ) (1) for
XX measuring human gene expression in a sample derived from human adult
XX liver, comprising one of 13109 defined nucleotide sequences given in the
XX specification or a nucleic acid molecule expressed in the human adult liver.
XX (2) may be used for predicting, measuring and displaying gene expression
XX in samples derived from human adult liver. The genes identified may be
XX hypophosphatemia, hyperhidrosis and hypercholesterolemia which is
XX associated with economy heart disease. A6047348-A6059930 represent human
XX liver single exon encoded peptide of the invention. Note: the sequence
XX but was obtained in electronic format directly from WFO at
XX ftp.wipo.int/pub/published_pat_sequences

XX S0 Sequence 97 M;
XX Query Match 19.3%; Score 21; DB 4; Length 97;
XX Best Local Similarity 100.0%; Pctd No. 1..6-12;
XX Matches 21; Complementative 0; Mismatches 0; Indels 0; Gaps 0;
XX 1 ASNSPSQGGTITTCGTGSSD 28
XX 1 ASNSPSQGGTITTCGTGSSD 21

XX RESULT 19
XX PR A6042480
XX ID A6042480 standard; peptide; 97 AA.
XX XX
XX AB042480;
XX 13-ATC-2002 (first entry)
XX XX
XX Human peptide encoded by genome-derived single exon probe SEQ ID 33145.
XX CC
XX Human single exon probes; asthma lung cancer; COPD; IHD;
XX chronic obstructive pulmonary disease; interstitial lung disease;
XX tuberculous scleritis; Gaucher's disease; Niemann-Pick disease;
XX Hereditary Pulask syndrome; sarcoidosis; pulmonary haemosiderosis;
XX pulmonary histiocytosis; lymphangioleiomyomatosis; primary biliary
XX cirrhosis; idiopathic pulmonary fibrosis; idiopathic pulmonary dysplasia;
XX primary Ciliary dyskinesia; pulmonary hypertension;
XX hyaline membrane disease.
XX CC Homo sapiens.
XX XX
XX NC000186003-42.
XX XX
XX 15-NOV-2001.

XX PR 30-JAN-2001; 2001MOL-US600564.
XX CC
XX PR 04-FEB-2001; 2000US-0180312E.
XX PR 26-MAY-2001; 2000US-0207446F.
XX PR 26-MAY-2001; 2000US-0207446F.
XX PR 30-JUN-2001; 2000US-0265216E.
XX PR 21-SEP-2001; 2000US-0234687F.
XX PR 21-SEP-2001; 2000US-0234687F.
XX PR 27-OCT-2001; 2000US-0235359F.
XX PR 04-OCT-2001; 2000GEO-00024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX PM Penn SQ, Hanzel DK, Chen W, Rank DR;
XX WP1; 2002-11493/15.
XX XX
XX Spatially-addressable set of single exon nucleic acid probes, used to
XX measure gene expression in human lung samples.
XX CC
XX Claim 27; SEQ ID NO 32145; 63bp; English.
XX CC The invention relates to a spatially-addressable set of single exon
XX nucleic acid probes for measuring gene expression in a sample, derived of
XX 13109 nucleotide sequences as described in the specification, or their
XX complements or the 1239 open reading frames derived from the 1242
XX probes. Also included are a microarray comprising the novel set of nucleic
XX acid probes, and a method for measuring gene expression in a sample
XX derived from human lung, comprising (a) contacting the array with a
XX collection of differently labeled nucleic acids found in each probe of the
XX array, identifying and detecting the hybridization products, and (b)
XX the array, and (c) detecting the hybridization products, and (d) detecting
XX the hybridization products, and (e) detecting the hybridization products,
XX having a fragment identical to the predicted exons to a single gene,
XX in the above mentioned microarray, assigning exons to a single gene,
XX classifying (a) identically the expression of each of the exons in several
XX tissues and/or cell types using hybridization to a single exon of
XX microarrays having a probe with the exon, where a common pattern of
XX expression should be assigned to a single gene; a peptide consisting one
XX of 1201 sequences, mentioned in the specification, or encoded by the
XX probes/open reading frames (ORFs). The probes are utilized for using human
XX lung derived RNA and for the study of lung diseases such as asthma, lung
XX cancer, chronic obstructive pulmonary disease (COPD), interstitial lung
XX disease (ILD), familial idiopathic pulmonary disease (FIPD), Niemann-Pick
XX disease, sarcoidosis, lymphangioleiomyomatosis, primary biliary
XX cirrhosis, idiopathic pulmonary fibrosis, idiopathic pulmonary dysplasia,
XX primary Ciliary dyskinesia, pulmonary hypertension, hyaline membrane
XX disease.
XX CC Homo sapiens.
XX CC Sequence 97 M;
XX Query Match 19.3%; Score 21; DB 5; Length 97;
XX Best Local Similarity 100.0%; Pctd No. 1..6-12;
XX Matches 21; Complementative 0; Mismatches 0; Indels 0; Gaps 0;
XX 1 ASNSPSQGGTITTCGTGSSD 28
XX 1 ASNSPSQGGTITTCGTGSSD 21

XX RESULT 20
XX PR A6042579

XX W0200142308-42.
 XX 14-JUN-2001.
 XX 08-DEC-2000: 200000C:EP012413.
 XX 08-DEC-1999: 9905-0169653B.
 XX (NOMS) NOVARTIS AG.
 XX (SC1) SCRIPPS RES INST.
 XX Barnes CF, Steinberger P.
 XX W01_2001-381649/40.
 XX Inhibiting, preventing or treating pathogenic infection of cells
 XX comprises expressing recombinant antibody specific for surface receptor
 XX of cells necessary for pathogenic infection, fused to intracellular
 XX anchor means.
 XX Claim 1, Page 59, 69pp: English.
 XX The specification describes a method for inhibiting, blocking
 XX preventing or treating surface receptor-dependent infection of cells by
 XX pathogenic agents. The method comprises a recombinant antibody protein
 XX fused to an intracellular anchor means, where the antibody is specific
 XX for a surface receptor of cells. The anchor means may be an endoplasmic reticulum retention peptide. The
 XX present sequence represents the light chain of the antibody Str/34,
 XX which is specific for the chemokine receptor CXCR5. The present protein is
 XX used to produce antibody proteins of the invention.

50 Sequence 103 AA:
 Query Match 17.4%; Score 19; DB 4; Length 103;
 Best Local Similarity 100.0%; Pred. No. 1-18-10;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Cy 72 TAAATGTCGAGGAGGATGTC 90
 Db 69 TAAATGTCGAGGAGGATGTC 87

Result 23
 AAB68719 standard; protein; 108 AA.
 AC AAB68719;
 XX 26-SEP-1996 (date entry)
 XX Human antibody lambda chain variable region consensus sequence.
 XX Antibody antibody, lambda chain variable region consensus sequence;
 XX canonical sequence, approximation, substitution; immunoglobulin
 XX light chain, variable region; V-region; diagnosis; immunotherapy;
 XX cancer treatment; autoimmune disease; immunotoxin; improved yield.
 XX Homo sapiens.
 XX D342421515-A1.
 XX 18-JUN-1996.
 XX 15-JUN-1994: 94DS-04435115.
 XX 15-JUL-1994: 94DS-04435115.
 XX [B05F] BOEHRINGER MANNHEIM GMBH.
 XX Steig B, Steinbacher S.

DB W01_1996-069594/08.
 XX Functional antibodies modified to increase or decrease stability - have
 XX specific amino acid substituents in the variable domain determined by
 XX reference to consensus sequences.
 XX Claim 2, Page 31; 43pp: German.
 XX Consensus sequences were established for antibody variable regions from
 XX human and mouse heavy and light (kappa and lambda) chains. In addition,
 XX frequency tables identifying the amino acids which can be found at each
 XX position were established by reference to the frequency table when an
 XX amino acid is replaced by one which occurs at a higher frequency at that
 XX position. The resulting antibody chain is more stable than the wild-type;
 XX not at all the resulting antibody is less stable than the wild-type.
 XX Stabilized antibodies are useful as diagnostic reagents, as catalysts
 XX in treatment of cancer, autoimmune diseases and infections. Decarboxylated
 XX sequence is the human lambda light chain variable region consensus
 XX sequence.

50 Sequence 108 AA:
 Query Match 17.4%; Score 19; DB 2; Length 108;
 Best Local Similarity 100.0%; Pred. No. 1-28-10;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Cy 72 TAAATGTCGAGGAGGATGTC 90
 Db 69 TAAATGTCGAGGAGGATGTC 87

Result 24
 AAB01958 standard; protein; 100 AA.
 XX AAB01958;
 XX 18-SEP-2000 (date entry)
 XX Streptavidin-binding mutant Ramos cell VV.
 XX Lymphoid cell; antibody producing cell; Ramos cell; immunoglobulin M;
 XX IgM; V gene diversity; directed constitutive hypermutation;
 XX target sequence identification; immunotoxin; immunotherapy;
 XX cancer treatment; autoimmune disease; immunotoxin; improved yield;
 XX streptavidin binding; mutant; murine.
 XX Homo sapiens.
 XX Synthetic.
 XX W0200022111-A1.
 XX 20-APR-2000.
 XX 08-OCT-1999: 99NO-G800358.
 XX 09-OCT-1999: 99AB-00023194.
 XX 19-JUN-1999: 99AB-00001411.
 XX 09-JUN-1999: 99AB-00019415.
 XX (MED1-) MEDICAL RES COUNCIL.
 XX Sale JE, Neuberger RS, Cumbers SJ;
 XX W01_2000-219971/27.
 XX N-PDB: AAB54444.
 XX Lymphoid cell line preparation useful for producing gene products having
 XX desired activity; involve screening and selecting cells having ongoing
 XX target sequence diversification and higher mutation rates.

PT therapeutic medicine

Search completed: March 15, 2004, 07:42:05
Job time : 57 secs

Search completed: March 15, 2004, 07:42:05
Job time : 57 secs

ALIGNMENTS

RESULT 1
 US-08-468-113-153
 / Sequence 153, Application US/08488113B
 / Patent No. 5744890
 / GENETIC INFORMATION:
 / APPLICANT: Better, Marc D.
 / APPLICANT: Studdike, Gary M.
 / APPLICANT: Carroll, Stephen F.
 / TITLE OF INVENTION: Peptides Comprising Ribosome-Inactivating
 / NUMBER OF SEQUENCES: 169
 / CORRESPONDENCE ADDRESS: He'd & Malloy, Ltd.
 / STREET: 500 West Madison Street, 34th Floor
 / CITY: Chicago
 / STATE: Illinois
 / ZIP: 60661
 / COMPUTER READABLE FORM:
 / MEDION TYPE: floppy disk
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: Patent in Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA: 08/477-468B
 / FILING DATE: 07-JUN-1995
 / CLASSIFICATION: 530
 / PRIOR APPLICATION NUMBER: US 08/425,336
 / APPLICATION NUMBER: US 08/425,336
 / FILING DATE: 18-APR-1995
 / PRIOR APPLICATION DATA: US 08/064,691
 / FILING DATE: 10-2-MAY-1993
 / PRIOR APPLICATION NUMBER: US 07/988,430
 / APPLICATION NUMBER: US 07/988,430
 / PRIOR APPLICATION DATA: 1992
 / APPLICATION NUMBER: US 07/901,707
 / FILING DATE: 19-JUN-1992
 / APPLICATION NUMBER: US 07/787,567
 / FILING DATE: 04-NOV-1991
 / ATTORNEY/AGENT INFORMATION: N
 / REGISTRATION NUMBER: 33,918
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: 312/707-9155
 / TELEFAX: 312/707-9155
 / TELEX: 650 386-1248
 / INFORMATION FOR SEQ ID NO: 153:
 / STRANDS: 1
 / LENGTH: 104 amino acids
 / TYPE: amino acid
 / TOPOLOGY: linear
 / MOLECULE TYPE: protein
 / US-08-468-113B-153

Query Match 23.9% Score 26; DS 1; Length 104;
 Best Local Similarity 100.0% Pred. No. 2,46-17;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 2
 US-08-477-468-151
 / Sequence 151, Application US/08477468B
 / Patent No. 5756599
 / GENETIC INFORMATION:
 / APPLICANT: Better, Marc D.
 / APPLICANT: Studdike, Gary M.
 / APPLICANT: Carroll, Stephen F.
 / TITLE OF INVENTION: Peptides Comprising Ribosome-Inactivating
 / NUMBER OF SEQUENCES: 169
 / CORRESPONDENCE ADDRESS: He'd & Malloy, Ltd.
 / STREET: 500 West Madison Street, 34th Floor
 / CITY: Chicago
 / STATE: Illinois
 / ZIP: 60661
 / COMPUTER READABLE FORM:
 / MEDION TYPE: floppy disk
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: Patent in Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA: 08/477-468B
 / FILING DATE: 07-JUN-1995
 / CLASSIFICATION: 530
 / PRIOR APPLICATION NUMBER: US 08/425,336
 / APPLICATION NUMBER: US 08/425,336
 / FILING DATE: 18-APR-1995
 / PRIOR APPLICATION DATA: US 08/064,691
 / FILING DATE: 10-2-MAY-1993
 / PRIOR APPLICATION NUMBER: US 07/988,430
 / APPLICATION NUMBER: US 07/988,430
 / PRIOR APPLICATION DATA: 1992
 / APPLICATION NUMBER: US 07/901,707
 / FILING DATE: 19-JUN-1992
 / APPLICATION NUMBER: US 07/787,567
 / FILING DATE: 04-NOV-1991
 / ATTORNEY/AGENT INFORMATION: N
 / REGISTRATION NUMBER: 33,918
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: 312/707-9155
 / TELEFAX: 312/707-9155
 / TELEX: 650 386-1248
 / INFORMATION FOR SEQ ID NO: 151:
 / STRANDS: 1
 / LENGTH: 104 amino acids
 / TYPE: amino acid
 / TOPOLOGY: linear
 / MOLECULE TYPE: protein
 / US-08-477-468B-151

Query Match 23.9% Score 26; DS 1; Length 104;
 Best Local Similarity 100.0% Pred. No. 2,46-17;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

STREET: 500 West Madison Street, 34th floor
 CITY: Chicago
 STATE: Illinois
 COUNTRY: USA
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: PC/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA: /09/610.938
 FILING DATE: /09-JUL-2000
 CLASSIFICATION:
 PRIOR APPLICATION DATA: US/09/156.399
 FILING DATE: /18-NOV-1998
 APPLICATION NUMBER: 08/666.360
 FILING DATE: /13-MAY-1996/05448
 FILING DATE: /12-MAY-1994
 PRIOR APPLICATION DATA: US/08/064.693
 APPLICATION NUMBER: US/07/988.430
 FILING DATE: /09-DEC-1992
 APPLICATION NUMBER: US/07/901.707
 FILING DATE: /19-JUN-1992
 PRIOR APPLICATION DATA: US/07/871.567
 FILING DATE: /04-NOV-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Mochizolus, Jane M.
 TELEPHONE: 312/707-8889
 TELECOMMUNICATION INFORMATION:
 REFERENCE/DOCKET NUMBER: 200-70-P4
 TELEPHONE: 312/707-8889
 TEXT: 650 368-1248
 INFORMATION FOR SEQ ID NO: 153:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1008
 TYPE: amino acid
 STRANDEDNESS: double
 MODIFICATION: linear
 US-09-610-838-153 protein

Query Match: 33.9% Score 26; DB 4; Length 104;
 Similarity: 100.0% Pctid No. 2, 4e-47
 Matches: 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 2 SALTOPASVSFGQSITTCGSS 27
 US-09-711-485-153
 Sequence 153, Application US/09/711485
 GENERAL INFORMATION:
 APPLICANT: Better, Marc D.
 APPLICANT: Carroll, Stephen F.
 TITLE OF INVENTION: Immunoclotus Comprising Ribosome-Inactivating
 NUMBER OF SEQUENCES: 1
 ADDRESS: Immunoclotus, Inc.
 STREET: 500 West Madison Street, 34th floor

CITY: Chicago
 STATE: Illinois
 COUNTRY: USA
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: PC/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA: US/09/711.485
 FILING DATE: /09-JUL-2000
 CLASSIFICATION:
 PRIOR APPLICATION DATA: US/08/839.765
 APPLICATION NUMBER: 08/839.765
 FILING DATE: /24-MAY-1993
 APPLICATION NUMBER: US/08/064.693
 FILING DATE: /13-MAY-1996/05448
 FILING DATE: /12-MAY-1994
 PRIOR APPLICATION DATA: US/07/988.430
 APPLICATION NUMBER: US/07/901.707
 FILING DATE: /09-DEC-1992
 APPLICATION NUMBER: US/07/901.707
 FILING DATE: /19-JUN-1992
 PRIOR APPLICATION DATA: US/07/871.567
 FILING DATE: /04-NOV-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Mochizolus, Jane M.
 TELEPHONE: 312/707-8889
 TELECOMMUNICATION INFORMATION:
 REFERENCE/DOCKET NUMBER: 200-70-P3, 03
 TELEPHONE: 312/707-8889
 TEXT: 650 368-1248
 INFORMATION FOR SEQ ID NO: 153:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1008
 TYPE: amino acid
 STRANDEDNESS: double
 MODIFICATION: linear
 US-09-711-485-153 protein

Query Match: 33.9% Score 26; DB 4; Length 104;
 Similarity: 100.0% Pctid No. 2, 4e-47
 Matches: 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 2 SALTOPASVSFGQSITTCGSS 27
 US-08-765-179B-19
 Sequence 19, Application US/08/765179B
 GENERAL INFORMATION:
 APPLICANT: STEINBACHER, Stefan
 APPLICANT: STEIN, Boris
 TITLE OF INVENTION: MODIFYING THE STABILITY
 NUMBER OF SEQUENCES: 28
 CORRESPONDENCE ADDRESS:
 STREET: 655 Fifteenth Street N.W., Suite 330
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-1701
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk

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COMMENTS: 1M PC compatible
OPERATING SYSTEM: Windows/MS-DOS
SOFTWARE: Protein Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
PILING DATE: 1996-04-23/07/85,179B
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PILING DATE: 06-JUL-1995/02/86
APPLICATION NUMBER: DB P 44 25 115.7
SEQUENCE CHARACTERISTICS:
INFORMATION FOR SEQ ID NO: 19:
LENGTH: 64 amino acids
STANDARDRES: acid
TOPOLOGY: linear
MOLECULAR TYPE: protein
US-09-765-179a-19

Query Match 17.4% Score 19; DB 3; Length 64;
Best Local Similarity 100.0%; Pred. No. 6.8e-11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 39 TASTTSGQAEEDYDYS 57
TASTTSGQAEEDYDYS 57

RESULT 13
US-07-137a-5
Sequence 5; Application US/09157370A
Patent No. 6262238
GENERAL INFORMATION:
APPLICANT: STEINBACHER, Stefan
TITLE OF INVENTION: PROCESS FOR MODIFYING THE STABILITY OF ANTIBODIES
FILE REFERENCE: P831.8072 US/09/157.370A
CURRENT PILING DATE: 1998-09-21/02/86,179
EARLIER PILING DATE: 1998-01-06/1995/02/86
EARLIER APPLICATION NUMBER: 08/765.179
EARLIER PILING DATE: 1995-07-15
EARLIER PILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: DE/P44 25 115.7
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 5
LENGTH: 109
TYPE: PART
ORGANISM: Homo sapiens
US-09-157-370-5

Query Match 17.4% Score 19; DB 3; Length 109;
Best Local Similarity 100.0%; Pred. No. 1e-10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 72 TASTTSGQAEEDYDYS 90
TASTTSGQAEEDYDYS 90

RESULT 14
US-09-240-274-69
Sequence 8; Application US/09240274
Patent No. 6253555
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
NUMBER OF SEQUENCES: 532

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FILE REFERENCE: 0956-4422
CURRENT APPLICATION NUMBER: US/09/240.274
CURRENT PILING DATE: 1999-01-23/01.380
EARLIER PILING DATE: 1996-04-10/02/86,180
EARLIER APPLICATION NUMBER: 60/081.380
EARLIER PILING DATE: 1996-10-11/02/86,180
NUMBER OF SEQ ID NOS: 224
SEQ ID NO 69 Patentin Ver. 2.0
LENGTH: 104
TYPE: PART
ORGANISM: Homo sapiens
FEATURES:
OTHER INFORMATION: anti-RN(D) chain S01
US-09-240-274-69

Query Match 15.6% Score 17; DB 3; Length 104;
Best Local Similarity 100.0%; Pred. No. 7.9e-09;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 67 TASTTSGQAEEDYDYS 83
TASTTSGQAEEDYDYS 83

RESULT 15
US-07-274-68
Sequence 8; Application US/09240274
Patent No. 6253555
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
FILE REFERENCE: 0956-4422 US/09/240.274
CURRENT PILING DATE: 1999-01-23/01.380
EARLIER PILING DATE: 1998-04-10/02/86,180
EARLIER APPLICATION NUMBER: 60/081.380
EARLIER PILING DATE: 1998-01-22/01.380
EARLIER PILING DATE: 1996-10-11/02/86,180
NUMBER OF SEQ ID NOS: 224
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 68
LENGTH: 108
TYPE: PART
ORGANISM: Homo sapiens
OTHER INFORMATION: anti-RN(D) chain R01
US-09-240-274-68

Query Match 15.4% Score 17; DB 3; Length 108;
Best Local Similarity 100.0%; Pred. No. 8.4e-09;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 78 SQGAEEDYDYS 94
SQGAEEDYDYS 94

RESULT 16
US-07-942-245-8
Sequence 8; Application US/07942245
Patent No. 6253555
GENERAL INFORMATION:
APPLICANT: PROBEREN, Jan T.
APPLICANT: PROBEREN, M.J.
APPLICANT: REBER, Anthony R.
APPLICANT: RODUSA, Michael A.
APPLICANT: GUIDO, Bryson C.
TITLE OF INVENTION: ANTIBODIES
NUMBER OF SEQUENCES: 532

```

CORRESPONDENCE ADDRESS:
 ADDRESS: Sughnes Moun, Zilm, Macpeak & Sees
 STREET: 2100 Pennsylvania Avenue, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: United States
 ZIP: 20037-1202
 COMPUTER READABLE FORM:
 COMPUTER: Ht 9000/700 Workstation
 OPERATING SYSTEM: UNIX
 SOFTWARE: in house
 APPLICATION NUMBER: US/07/942.245
 FILING DATE: 09-SEP-1992
 CLASSIFICATION: 530
 TECHNICAL INFORMATION:
 TELEPHONE: (202) 293-7660
 TELEFAX: (202) 293-7660
 FAX: 649103
 INFORMATION SOURCE ID NO.: 8
 SEQUENCE CHARACTERISTICS:
 LENGTH: 103 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-07-942-245-8
 Query Match 11.0%; Score 12; DB 1; Length 103;
 Best Local Similarity 100.0%; Pval: No. 0.00043;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 79 GLOAREBDDYC 90
 DB 71 GLOAREBDDYC 82

RESULT 17
 US-08-107-6690-3
 Sequence 3 application US/081076690
 GENERAL INFORMATION:
 APPLICATION: Studnicka, Gary M.
 NUMBER OF SEQUENCES: 1
 NUMBER OF SEQUENCES: 1
 CORRESPONDENCE ADDRESS:
 ADDRESS: 10 Stere, Kessler, Goldstein and Fox P.L.L.C.
 CITY: Washington
 STATE: D.C.
 COUNTRY: United States of America
 COMPUTER READABLE FORM:
 MEDIAN TYPE: floppy disk
 SOFTWARE: IBM PC compatible DOS
 CURRENT APPLICATION DATA: 09/107.6690
 FILING DATE: 23-JUN-1993
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/US92/10906
 FILING DATE: 07-JUN-1995
 NAME: Chibala, Michele A.
 REGISTRATION NUMBER: 33,851
 REFERENCE INFORMATION:
 TELEPHONE: 202/371-2600
 APPLICATION FOR SEQ ID NO.: 3
 SEQUENCE CHARACTERISTICS:
 LENGTH: 103 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-107-6690-3
 Query Match 11.0%; Score 12; DB 1; Length 103;
 Best Local Similarity 100.0%; Pval: No. 0.00043;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 79 GLOAREBDDYC 90
 DB 71 GLOAREBDDYC 82

TELEFAX: 202/371-2600
 INFORMATION FOR SEQ ID NO.: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 103 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-107-6690-3
 Query Match 11.0%; Score 12; DB 1; Length 103;
 Best Local Similarity 100.0%; Pval: No. 0.00043;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 79 GLOAREBDDYC 90
 DB 72 GLOAREBDDYC 83

RESULT 18
 US-08-472-788A-3
 Sequence 3 application US/08472788A
 GENERAL INFORMATION:
 APPLICATION: Studnicka, Gary M.
 NUMBER OF SEQUENCES: 1
 NUMBER OF SEQUENCES: 1
 CORRESPONDENCE ADDRESS:
 ADDRESS: 10 Stere, Kessler, Goldstein and Fox P.L.L.C.
 CITY: Washington
 STATE: D.C.
 COUNTRY: United States of America
 COMPUTER READABLE FORM:
 MEDIAN TYPE: floppy disk
 SOFTWARE: IBM PC compatible DOS
 CURRENT APPLICATION DATA: 08/472.788A
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/US92/10906
 FILING DATE: 23-JUN-1993
 NAME: Chibala, Michele A.
 REGISTRATION NUMBER: 33,851
 REFERENCE INFORMATION:
 TELEPHONE: 202/371-2600
 APPLICATION FOR SEQ ID NO.: 3
 SEQUENCE CHARACTERISTICS:
 LENGTH: 103 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-472-788A-3
 Query Match 11.0%; Score 12; DB 1; Length 103;
 Best Local Similarity 100.0%; Pval: No. 0.00043;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 79 GLOAREBDDYC 90
 DB 72 GLOAREBDDYC 83

RESULT 22
 US-09-240-174-49
 Sequence 49, Application US/09240274
 GENERAL INFORMATION:
 APPLICANT: Siegel, Donald L.
 TITLE OF INVENTION: ENDO-SPINNING PROTEINS AND NONSPECIFICALLY ACTIVATED CELL
 TITLE OF INVENTION: ENDO-SPINNING METHOD FOR PRODUCTION MEMBRANES
 FILE REFERENCE: 0956-4202
 CURRENT APPLICATION NUMBER: US/09/240,274
 PRIORITY FILING DATE: 1999-04-20
 EARLIER FILING DATE: 1999-04-20
 EARLIER APPLICATION NUMBER: 60/081,380
 EARLIER FILING DATE: 1999-04-20
 NUMBER OF SEQ ID NOS: 194
 NUMBER OF SEQ ID NOS: 194
 SOFTWARE: Patent In Ver. 2.0
 SEQ ID NO 49
 TYPE: PRT
 ORGANISM: Homo sapiens
 FLAVOUR: Homo sapiens
 US-09-240-174-49
 Query Match: 11.0%; Score 12; DB 3; Length 104;
 Matched 121; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 76 Q9BDAUYCS 87

RESULT 23
 US-08-765-1798-10
 Sequence 10, Application US/087651793
 GENERAL INFORMATION:
 APPLICANT: STEINBERG, Boris
 APPLICANT: STEINBERG, Stefan
 TITLE OF INVENTION: PROCESS FOR MODIFYING THE STABILITY
 TITLE OF INVENTION: PROCESS FOR MODIFYING THE STABILITY
 NUMBER OF SEQUENCES: 28
 CORRESPONDENCE ADDRESS:
 ADDRESSES: Masado, Kamekichi, Maruya & Grom LLP
 ADDRESSES: 145 Greenwich Street N.Y. Suite 250
 CITY: Washington
 STATE: Washington
 COUNTRY: U.S.A.
 CONTACT: 0001570
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA: 08/765,1798
 FILING DATE: 1998-08-19
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA: 08/765,1798
 FILING DATE: 1998-08-19
 PRIOR APPLICATION DATA: 08/765,1798
 FILING DATE: 1998-08-19
 APPLICATION NUMBER: DB P 44 25 115.7
 INFORMATION FOR SEQ ID NO 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 64 amino acids
 STRANDNESS: acid

TOPLOGY: linear
 US-08-765-1798-10
 Query Match: 10.1%; Score 11; DB 3; Length 64;
 Matched 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 42 P0KRP0L110 52

RESULT 24
 US-08-851-3620-20
 Sequence 20, Application US/088513620
 GENERAL INFORMATION:
 APPLICANT: Jacobowitz, Aya
 APPLICANT: Yang, Xiaodong
 APPLICANT: Gao, Xiangchun
 TITLE OF INVENTION: Human Monoclonal Antibodies to Epidermal
 TITLE OF INVENTION: Growth Factor Receptor
 CURRENT APPLICATION NUMBER: US/08/851,3620
 CURRENT FILING DATE: 1997-05-05
 NUMBER OF SEQ ID NOS: 49
 NUMBER OF SEQ ID NOS: 49
 SEQ ID NO 20: seqid no: Windows Version 4.0
 LENGTH: 76
 TYPE: PRT
 ORGANISM: human
 US-08-851-3620-20
 Query Match: 10.1%; Score 11; DB 3; Length 76;
 Matched 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 42 P0KRP0L110 52

RESULT 25
 US-08-450-9598-19
 Sequence 19, Application US/082509528
 GENERAL INFORMATION:
 APPLICANT: JOHNSON, L.
 APPLICANT: JOHNSON, L.
 TITLE OF INVENTION: Human Murine Chimeric Antibodies Against
 TITLE OF INVENTION: Respiratory Syncytial Virus
 NUMBER OF SEQUENCES:
 CORRESPONDENCE ADDRESS:
 ADDRESSES: CARELLA, BRYAN, BAIN, GUFFILMAN, CROCH, STEWART &
 ADDRESSES: BECKER FARM ROAD
 CITY: ROSELAND
 STATE: NEW JERSEY
 COUNTRY: U.S.A.
 CONTACT: 07068
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 INCH DISKETTE
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA: 08/450,9598
 FILING DATE: 1994-08-19
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA: 07/411,372
 FILING DATE: December 23, 1991

ATTORNEY/AGENT INFORMATION:
 NAME: Olstein, Elliot M.
 REGISTRATION NUMBER: 24, 043
 REGISTRATION EXPIRATION DATE: 04/30/2005
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 201-994-1700
 TELEFAX: 201-994-1744
 INFORMATION FOR ABO: 191
 SEQUENCE CHARACTERISTICS:
 LENGTH: 95 AMINO ACIDS
 TOPOLOGY: 1
 FUNCTION: UNKNOWN
 MOLECULE TYPE: PROTEIN
 US-08-390-592E-19

Query Match 10.1% Score 11; PR 2; Length 95;
 Best Local Similarity 100.0%; Pred. No. 0.0035;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 42 PGRAPPELLIYD 52
 DB 40 PGRAPPELLIYD 50

Search completed: March 15, 2004, 07:44:32
 Job time : 24 secs

GenCore version 5.1.6
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CM protein - protein search, using SW model

Run on: March 15, 2004, 07:40:14 ; Search time 20 Seconds

524.244 Million cell updates/sec

Title: US-09-620-955B-4
Barfact: 109

sequence: 1 QSALTQPASVSGSPGQSIITL.....CSSFANSQPLFEGGKIVLV 103

Capod 60.0 , Capext 60.0

Searched: 283366 seqs, 96191526 residues

Word size : 0

Total number of hits satisfying chosen parameters

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Minimum DB seq length: 0
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Post-processing: fitting first 100 samples

Databases

Pre

and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	28	25.7	99	2	533055	1	I lambda Chain -
2	28	25.7	99	2	533055	1	I lambda Chain -
3	20	19.2	99	2	533055	1	I lambda Chain -
4	19	18.2	99	2	533055	1	I lambda Chain -
5	19	17.4	109	1	LJHUP	1	I lambda Chain V-
6	12	11.0	99	2	533052	1	I lambda Chain -
7	12	11.0	99	2	533052	1	I lambda Chain -
8	12	11.0	99	2	533052	1	I lambda Chain -
9	12	11.0	103	1	LJHUP	1	I lambda Chain V-
10	11	10.1	62	2	534255	1	I lambda Chain V-
11	11	10.1	62	2	534255	1	I lambda Chain V-
12	11	10.1	86	2	533058	1	I lambda Chain V-
13	11	10.1	86	2	533057	1	I lambda Chain V-
14	11	10.1	95	2	PM852	1	I lambda Chain V-
15	11	10.1	101	1	PM854	1	I lambda Chain V-
16	11	10.1	107	2	PM854	1	I lambda Chain V-
17	11	10.1	108	1	KJHUP	1	I lambda Chain V-
18	11	10.1	108	1	KJHUP	1	I lambda Chain V-
19	11	10.1	108	1	KJHUP	1	I lambda Chain V-
20	10	9.2	92	2	PM860	1	I lambda Chain V-
21	10	9.2	92	2	PM860	1	I lambda Chain V-
22	10	9.2	92	2	PM860	1	I lambda Chain V-
23	10	9.2	92	2	PM860	1	I lambda Chain V-
24	10	9.2	92	2	PM860	1	I lambda Chain V-
25	10	9.2	92	2	PM860	1	I lambda Chain V-
26	10	9.2	92	2	PM860	1	I lambda Chain V-
27	10	9.2	92	2	PM860	1	I lambda Chain V-
28	10	9.2	92	2	PM860	1	I lambda Chain V-
29	10	9.2	92	2	PM860	1	I lambda Chain V-
30	10	9.2	92	2	PM860	1	I lambda Chain V-
31	10	9.2	92	2	PM860	1	I lambda Chain V-
32	10	9.2	92	2	PM860	1	I lambda Chain V-
33	10	9.2	92	2	PM860	1	I lambda Chain V-
34	10	9.2	92	2	PM860	1	I lambda Chain V-
35	10	9.2	92	2	PM860	1	I lambda Chain V-
36	10	9.2	92	2	PM860	1	I lambda Chain V-
37	10	9.2	92	2	PM860	1	I lambda Chain V-
38	10	9.2	92	2	PM860	1	I lambda Chain V-
39	10	9.2	92	2	PM860	1	I lambda Chain V-
40	10	9.2	92	2	PM860	1	I lambda Chain V-
41	10	9.2	92	2	PM860	1	I lambda Chain V-
42	10	9.2	92	2	PM860	1	I lambda Chain V-
43	10	9.2	92	2	PM860	1	I lambda Chain V-
44	10	9.2	92	2	PM860	1	I lambda Chain V-
45	10	9.2	92	2	PM860	1	I lambda Chain V-
46	10	9.2	92	2	PM860	1	I lambda Chain V-
47	10	9.2	92	2	PM860	1	I lambda Chain V-
48	10	9.2	92	2	PM860	1	I lambda Chain V-
49	10	9.2	92	2	PM860	1	I lambda Chain V-
50	10	9.2	92	2	PM860	1	I lambda Chain V-
51	10	9.2	92	2	PM860	1	I lambda Chain V-
52	10	9.2	92	2	PM860	1	I lambda Chain V-
53	10	9.2	92	2	PM860	1	I lambda Chain V-
54	10	9.2	92	2	PM860	1	I lambda Chain V-
55	10	9.2	92	2	PM860	1	I lambda Chain V-
56	10	9.2	92	2	PM860	1	I lambda Chain V-
57	10	9.2	92	2	PM860	1	I lambda Chain V-
58	10	9.2	92	2	PM860	1	I lambda Chain V-
59	10	9.2	92	2	PM860	1	I lambda Chain V-
60	10	9.2	92	2	PM860	1	I lambda Chain V-
61	10	9.2	92	2	PM860	1	I lambda Chain V-
62	10	9.2	92	2	PM860	1	I lambda Chain V-
63	10	9.2	92	2	PM860	1	I lambda Chain V-
64	10	9.2	92	2	PM860	1	I lambda Chain V-
65	10	9.2	92	2	PM860	1	I lambda Chain V-
66	10	9.2	92	2	PM860	1	I lambda Chain V-
67	10	9.2	92	2	PM860	1	I lambda Chain V-
68	10	9.2	92	2	PM860	1	I lambda Chain V-
69	10	9.2	92	2	PM860	1	I lambda Chain V-
70	10	9.2	92	2	PM860	1	I lambda Chain V-
71	10	9.2	92	2	PM860	1	I lambda Chain V-
72	10	9.2	92	2	PM860	1	I lambda Chain V-
73	10	9.2	92	2	PM860	1	I lambda Chain V-
74	10	9.2	92	2	PM860	1	I lambda Chain V-
75	10	9.2	92	2	PM860	1	I lambda Chain V-
76	10	9.2	92	2	PM860	1	I lambda Chain V-
77	10	9.2	92	2	PM860	1	I lambda Chain V-
78	10	9.2	92	2	PM860	1	I lambda Chain V-
79	10	9.2	92	2	PM860	1	I lambda Chain V-
80	10	9.2	92	2	PM860	1	I lambda Chain V-
81	10	9.2	92	2	PM860	1	I lambda Chain V-
82	10	9.2	92	2	PM860	1	I lambda Chain V-
83	10	9.2	92	2	PM860	1	I lambda Chain V-
84	10	9.2	92	2	PM860	1	I lambda Chain V-
85	10	9.2	92	2	PM860	1	I lambda Chain V-
86	10	9.2	92	2	PM860	1	I lambda Chain V-
87	10	9.2	92	2	PM860	1	I lambda Chain V-
88	10	9.2	92	2	PM860	1	I lambda Chain V-
89	10	9.2	92	2	PM860	1	I lambda Chain V-
90	10	9.2	92	2	PM860	1	I lambda Chain V-
91	10	9.2	92	2	PM860	1	I lambda Chain V-
92	10	9.2	92	2	PM860	1	I lambda Chain V-
93	10	9.2	92	2	PM860	1	I lambda Chain V-
94	10	9.2	92	2	PM860	1	I lambda Chain V-
95	10	9.2	92	2	PM860	1	I lambda Chain V-
96	10	9.2	92	2	PM860	1	I lambda Chain V-
97	10	9.2	92	2	PM860	1	I lambda Chain V-
98	10	9.2	92	2	PM860	1	I lambda Chain V-
99	10	9.2	92	2	PM860	1	I lambda Chain V-
100	10	9.2	92	2	PM860	1	I lambda Chain V-

ALIGNMENTS

RESULT 1

IG lambda chain - human (fragment)
 C Species: Homo sapiens (nan)
 C Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 21-Jan-2000
 R William S.C.

submitted to the EMBL data library, April 1993

A Reference number: S3606
 A Accession: S3607
 C Species: Homo sapiens (nan)
 C Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 21-Jan-2000
 A Molecule type: DNA
 A Residues: 1-99 <NTL>
 A Comment: This is a full length lambda chain V region, immunoglobulin homology
 C Keywords: heterocysteine; immunoglobulin
 F.15-92/Domain: immunoglobulin homology <IM>

Query Match

Best Local Similarity: 100.0% Pred. No. 5-4e-21; Length 99;
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 GSAUTGASVSQSQSGITTCGTGSD 28

RESULT 2

IG lambda chain - human (fragment)
 C Species: Homo sapiens (nan)
 C Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 21-Jan-2000
 R William S.C.

submitted to the EMBL data library, April 1993

A Reference number: S3606
 A Accession: S3607
 C Species: Homo sapiens (nan)
 C Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 21-Jan-2000
 A Molecule type: DNA
 A Residues: 1-99 <NTL>
 A Comment: This is a full length lambda chain V region, immunoglobulin homology
 C Keywords: heterocysteine; immunoglobulin
 F.15-92/Domain: immunoglobulin homology <IM>

Query Match

Best Local Similarity: 100.0% Pred. No. 5-4e-21; Length 99;
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 GSAUTGASVSQSQSGITTCGTGSD 28

RESULT 3

IG lambda chain - human (fragment)
 C Species: Homo sapiens (nan)
 C Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 21-Jan-2000
 R William S.C.

submitted to the EMBL data library, April 1993

A Reference number: S3606
 A Accession: S3607
 C Species: Homo sapiens (nan)
 C Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 21-Jan-2000
 A Molecule type: DNA
 A Residues: 1-99 <NTL>
 A Comment: This is a full length lambda chain V region, immunoglobulin homology
 C Keywords: heterocysteine; immunoglobulin

Query Match 18.7% Score 20; DB 2; Length 99;
 Best Local Similarity: 100.0% Pred. No. 7-4e-13;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

72 TAAATGGAAGGADYVC 21

72 TAAATGGAAGGADYVC 21

RESULT 4

IG lambda chain - human (fragment)
 C Species: Homo sapiens (nan)
 C Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 21-Jan-2000
 A Reference number: S3606
 A Accession: S3607
 C Species: Homo sapiens (nan)
 C Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 21-Jan-2000
 A Molecule type: DNA
 A Residues: 1-99 <NTL>
 A Comment: This is a full length lambda chain V region, immunoglobulin homology
 C Keywords: heterocysteine; immunoglobulin
 F.15-92/Domain: immunoglobulin homology <IM>

Query Match

Best Local Similarity: 100.0% Pred. No. 7-6e-12; Length 99;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 72 TAAATGGAAGGADYVC 90

RESULT 5

IG lambda chain V-II region (Eur) - human
 C Species: Homo sapiens (nan)
 C Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 02-Sep-1997
 A Reference number: A01974
 A Accession: A01974
 C Species: Homo sapiens (nan)
 C Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 02-Sep-1997
 A Molecule type: DNA
 A Residues: 1-109 <NTL>
 A Comment: This chain was isolated from a T-cell line.

Query Match

Best Local Similarity: 100.0% Pred. No. 7-6e-12; Length 99;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 72 TAAATGGAAGGADYVC 90

RESULT 6

IG lambda chain V-II region (Eur) - human
 C Species: Homo sapiens (nan)
 C Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 02-Sep-1997
 A Reference number: A01974
 A Accession: A01974
 C Species: Homo sapiens (nan)
 C Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 02-Sep-1997
 A Molecule type: DNA
 A Residues: 1-109 <NTL>
 A Comment: This chain was isolated from a T-cell line.

Query Match

Best Local Similarity: 100.0% Pred. No. 7-6e-12; Length 99;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 72 TAAATGGAAGGADYVC 90

RESULT 7

IG lambda chain V-II region (Eur) - human
 C Species: Homo sapiens (nan)
 C Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 02-Sep-1997
 A Reference number: A01974
 A Accession: A01974
 C Species: Homo sapiens (nan)
 C Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 02-Sep-1997
 A Molecule type: DNA
 A Residues: 1-109 <NTL>
 A Comment: This chain was isolated from a T-cell line.

Query Match

Best Local Similarity: 100.0% Pred. No. 7-6e-12; Length 99;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 72 TAAATGGAAGGADYVC 90

RESULT 6
19 lambda chain - human (fragment)
336051
C/Species: Homo sapiens (man)
C/Accession: 336051
C/Date: 22-Nov-1993
R/Williams, S.C. EMBL data library, April 1993
A/Accession: 336051
A/Accession number: 336051
A/Status: preliminary
A/Title: 139 kDa
A/Keywords: immunoglobulin V region; immunoglobulin homology
C/Species-family: immunoglobulin V region; immunoglobulin homology
P:15-97/Domain: immunoglobulin homology <HW>

Query Match 11.0% Score 12 DB 2 Length 99
Query Similarity 100.0% Pred. No. 0.0001
Matches 12/ Conservative 0/ Mismatches 0/ Indels 0/ Gaps 0/

DB 79 GIQ48DABYIC 90

RESULT 7
19 lambda chain - human (fragment)
336052
C/Species: Homo sapiens (man)
C/Accession: 336052
C/Date: 22-Nov-1993
R/Williams, S.C. EMBL data library, April 1993
A/Accession: 336052
A/Accession number: 336052
A/Status: preliminary
A/Title: 139 kDa
A/Keywords: immunoglobulin V region; immunoglobulin homology
C/Species-family: immunoglobulin V region; immunoglobulin homology
P:15-97/Domain: immunoglobulin homology <HW>

Query Match 11.0% Score 12 DB 2 Length 99
Query Similarity 100.0% Pred. No. 0.0001
Matches 12/ Conservative 0/ Mismatches 0/ Indels 0/ Gaps 0/

DB 79 GIQ48DABYIC 90

RESULT 8
19 lambda chain - human (fragment)
336053
C/Species: Homo sapiens (man)
C/Accession: 336053
C/Date: 22-Nov-1993
R/Williams, S.C. EMBL data library, April 1993
A/Accession: 336053
A/Accession number: 336053
A/Status: preliminary
A/Title: 139 kDa
A/Keywords: immunoglobulin V region; immunoglobulin homology
C/Species-family: immunoglobulin V region; immunoglobulin homology
P:15-97/Domain: immunoglobulin homology <HW>

Query Match 11.0% Score 12 DB 2 Length 99
Query Similarity 100.0% Pred. No. 0.0001
Matches 12/ Conservative 0/ Mismatches 0/ Indels 0/ Gaps 0/

DB 79 GIQ48DABYIC 90

Query Match 11.0% Score 12 DB 2 Length 99
Query Similarity 100.0% Pred. No. 0.0001
Matches 12/ Conservative 0/ Mismatches 0/ Indels 0/ Gaps 0/

DB 79 GIQ48DABYIC 90

RESULT 9
19 lambda chain V region (IgM) - human (reactive sequence)
336054
C/Species: Homo sapiens (man)
C/Accession: 336054
C/Date: 23-Oct-1981
R/Williams, S.C. EMBL data library, April 1993
A/Accession: 336054
A/Accession number: 336054
A/Status: preliminary
A/Title: 139 kDa
A/Keywords: immunoglobulin V region; immunoglobulin homology
C/Species-family: immunoglobulin V region; immunoglobulin homology
P:15-97/Domain: immunoglobulin homology <HW>

Query Match 11.0% Score 12 DB 2 Length 103
Query Similarity 100.0% Pred. No. 0.0001
Matches 12/ Conservative 0/ Mismatches 0/ Indels 0/ Gaps 0/

DB 79 GIQ48DABYIC 90

RESULT 10
19 kappa chain V region (1018) - human
34265
C/Species: Homo sapiens (man)
C/Accession: 34265
C/Date: 23-Oct-1981
R/Scott, M.G.; Crimmins, D.L.; McQuate, D.W.; Chung, G.; Schaeble, K.F.; Thibde, R.; J. Immunol. 139:1393-1397, 1974
A/Accession: 34265
A/Accession number: 34265
A/Status: preliminary
A/Title: 139 kDa
A/Keywords: immunoglobulin V region; immunoglobulin homology
C/Species-family: immunoglobulin V region; immunoglobulin homology
P:15-97/Domain: immunoglobulin homology <HW>

Query Match 10.3% Score 11 DB 2 Length 62
Query Similarity 100.0% Pred. No. 0.00071
Matches 12/ Conservative 0/ Mismatches 0/ Indels 0/ Gaps 0/

DB 79 GIQ48DABYIC 90

Matches 11: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 PGMAPLITD 52
|||||
40 PGMAPLITD 50

RESULT 11
1g kappa chain V region - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 02-01-1995 sequence_revision:02-01-1995 exec_change 21-Jan-2000
R/Mapper: S.D.; Martinez, L.; V.; Luzzatto, L.
Blood 83, 3647-3653, 1994
A/Title: Similar pictures of V kappa gene usage but different degrees of somatic mutatio
A/Accession: 192992, 192993, NM013464318, PMID19284699
A/Status: preliminary; translated from DB/EMBL/DBJ
A/Molecule type: DNA
A/Accession: 192992, 192993, NM013464318, PMID19284699
A/Cross-references: DB:871057; NID:9547053; PIND:AA80971.1; PID:9547054
C/Comment:
A/Genetic: JAKV
A/Comment: JAKV; immunoglobulin V region; immunoglobulin homology
P:9-83/Domain: immunoglobulin homology r19Mx
Query Match 10.1% Score 11; DB 2; Length 87;
Best Local Similarity 100.0%; Pred.No. 0.00094; Mismatches 0; Indels 0; Gaps 0;
Matches 11: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 PGMAPLITD 52
|||||
33 PGMAPLITD 43

RESULT 12
1g kappa chain V region - human
C/Species: Homo sapiens (man)
C/Date: 11-Jan-1995 sequence_revision:11-Jan-1995 exec_change 21-Jan-2000
R/Mapper: S.D.; Luzzatto, L.
Blood 83, 3647-3653, 1994
A/Title: V kappa gene segments rearranged in chronic lymphocytic leukemias are distribut
A/Reference number: S3406; PMID:9170397; PMID:8436174
A/Accession: S34068
A/Status: preliminary; translated from DB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-88 <MC>
A/Cross-references: EMBL:X67172
A/Comment: S34068; immunoglobulin V region; immunoglobulin homology
C/Keywords: heterocenter; immunoglobulin
P:9-83/Domain: immunoglobulin homology r19Mx
Query Match 10.1% Score 11; DB 2; Length 88;
Best Local Similarity 100.0%; Pred.No. 0.00055; Mismatches 0; Indels 0; Gaps 0;
Matches 11: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 PGMAPLITD 52
|||||
33 PGMAPLITD 43

RESULT 13
S34068
C/Species: Homo sapiens (man)
C/Date: 11-Jan-1995 sequence_revision:11-Jan-1995 exec_change 21-Jan-2000
R/Mapper: S.D.; Luzzatto, L.
Blood 83, 3647-3653, 1994
A/Title: V kappa gene segments rearranged in chronic lymphocytic leukemias are distribut
A/Reference number: S3406; PMID:9170397; PMID:8436174
A/Accession: S34068
A/Status: preliminary; translated from DB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-88 <MC>
A/Cross-references: EMBL:X67172
A/Comment: S34068; immunoglobulin V region; immunoglobulin homology
C/Keywords: heterocenter; immunoglobulin
P:9-83/Domain: immunoglobulin homology r19Mx
Query Match 10.1% Score 11; DB 2; Length 88;
Best Local Similarity 100.0%; Pred.No. 0.00055; Mismatches 0; Indels 0; Gaps 0;
Matches 11: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

A/Reference number: S3406; PMID:9170397; PMID:8436174
A/Accession: S34068
A/Status: preliminary
A/Molecule type: DNA
A/Cross-references: EMBL:X67172
A/Comment: S34068; immunoglobulin V region; immunoglobulin homology
P:9-83/Domain: immunoglobulin homology r19Mx
Query Match 10.1% Score 11; DB 2; Length 88;
Best Local Similarity 100.0%; Pred.No. 0.00099; Mismatches 0; Indels 0; Gaps 0;
Matches 11: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 PGMAPLITD 52
|||||
33 PGMAPLITD 43

RESULT 14
1g kappa chain V region (anti-DNA, III-3R) - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 09-Oct-1992 sequence_revision:09-Oct-1992 exec_change 21-Jan-2000
R/Mapper: S.D.; Martinez, L.; V.; Luzzatto, L.
Blood 83, 3647-3653, 1994
A/Title: Similar pictures of V kappa gene usage but different degrees of somatic mutatio
A/Accession: 192992, 192993, NM013464318, PMID19284699
A/Status: preliminary; translated from DB/EMBL/DBJ
A/Molecule type: DNA
A/Accession: 192992, 192993, NM013464318, PMID19284699
A/Cross-references: DB:871057; NID:9547053; PIND:AA80971.1; PID:9547054
C/Comment:
A/Genetic: JAKV
A/Comment: JAKV; immunoglobulin V region; immunoglobulin homology
P:9-83/Domain: immunoglobulin homology r19Mx
Query Match 10.1% Score 11; DB 2; Length 95;
Best Local Similarity 100.0%; Pred.No. 0.00011; Mismatches 0; Indels 0; Gaps 0;
Matches 11: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 PGMAPLITD 52
|||||
40 PGMAPLITD 50

RESULT 15
1g kappa chain V region (anti-DNA, IIC) - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 09-Oct-1992 sequence_revision:09-Oct-1992 exec_change 21-Jan-2000
R/Mapper: S.D.; Martinez, L.; V.; Luzzatto, L.
Blood 83, 3647-3653, 1994
A/Title: Similar pictures of V kappa gene usage but different degrees of somatic mutatio
A/Accession: 192992, 192993, NM013464318, PMID19284699
A/Status: preliminary; translated from DB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-95 <MC>
A/Cross-references: EMBL:X67172
A/Comment: S34068; immunoglobulin V region; immunoglobulin homology
C/Keywords: heterocenter; immunoglobulin
P:9-83/Domain: immunoglobulin homology r19Mx
Query Match 10.1% Score 11; DB 2; Length 95;
Best Local Similarity 100.0%; Pred.No. 0.00011; Mismatches 0; Indels 0; Gaps 0;
Matches 11: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

F:57-88/Region: complementarity-determining 3

Dairy Match 10.1% Score 11, DB 2, Length 98,

Best Local Similarity 100.0%, Pred. No 0.0011,

Matches 11: Conservative 0, Mismatches 0, Indels 0, Gaps 0;

DB 40 POKPKLLLYD 50

OR 42 POKPKLLLYD 52

RESULT 16

KIMUHY 16

16 lambda chain V-1 region - horse (fragment)

C:Species: Equus caballus (domestic horse)

C:Date: 24-Apr-1994 sequence, revision 18-Nov-1994 text_change 21-Jan-2000

C:Accession: A94536

R:Name: W. A. Ford, J. E. Gibson, D. M.

R:Title: The structure of the lambda chain V-1 region in horse, I. Characterization of Ig lambda genes.

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

C:Keywords: heterocysteine, immunoglobulin

F:57-88/Domain: immunoglobulin homology <HW>

F:57-88/Residue bonds: status predicted

Dairy Match 10.1% Score 11, DB 1, Length 108,

Best Local Similarity 100.0%, Pred. No 0.0011,

Matches 11: Conservative 0, Mismatches 0, Indels 0, Gaps 0;

DB 40 POKPKLLLYD 50

OR 42 POKPKLLLYD 52

RESULT 18

KIMUHY 18

18 lambda chain V-1 region (dog) - human (centrifuge sequence)

C:Species: Homo sapiens (man)

C:Date: 24-Apr-1994 sequence, revision 02-Jul-1998 text_change 31-Mar-2000

C:Accession: A94536

R:Name: W. A. Ford, J. E. Gibson, D. M.

R:Title: The structure of the lambda chain V-1 region in horse, I. Characterization of Ig lambda genes.

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

C:Keywords: heterocysteine, immunoglobulin

F:57-88/Domain: immunoglobulin homology <HW>

F:57-88/Residue bonds: status predicted

Dairy Match 10.1% Score 11, DB 1, Length 108,

Best Local Similarity 100.0%, Pred. No 0.0011,

Matches 11: Conservative 0, Mismatches 0, Indels 0, Gaps 0;

DB 40 POKPKLLLYD 50

OR 42 POKPKLLLYD 52

RESULT 18

KIMUHY 18

18 lambda chain V-1 region (dog) - human (centrifuge sequence)

C:Species: Homo sapiens (man)

C:Date: 24-Apr-1994 sequence, revision 02-Jul-1998 text_change 31-Mar-2000

C:Accession: A94536

R:Name: W. A. Ford, J. E. Gibson, D. M.

R:Title: The structure of the lambda chain V-1 region in horse, I. Characterization of Ig lambda genes.

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

A:Experimental source: spleen

A:Reference number: A94536

A:Accession: A94536

A:Residues: 1-107 <HW>

A:Comments: This sequence was compared with conceptual translation

F/7.81/Domain: immunoglobulin homology <IM>

Query Match
Seq: Local Significance 9.24; Score 10; DS 2; Length 86;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 PROBABILITY 51
DB 31 PROBABILITY 40

REGION 25

Ig kappa chain V region - human (fragment)

CISpecies: Homo sapiens (man); sequence revision 25-Oct-1996 RevC_change 21-Jan-2000

CIDescription: Feb-1995; sequence revision 25-Oct-1996 RevC_change 21-Jan-2000

R: Megier, S.D.; Lazareto, L.

EUR: J. Immunol. 23, 391-397, 1993

Accession: S34079

Accession: S34079

Accession: S34079

Accession: S34079

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Accession: S34079

Accession: S34079

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Accession: S34079

Accession: S34079

Accession: S34079

Accession: S34079

Accession: S34079

Accession: S34079

Accession: S34079

Search completed: March 15, 2004, 07:43:56

Job time : 21.6sec

Query Match
Seq: Local Significance 9.24; Score 10; DS 2; Length 87;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 PROBABILITY 51
DB 33 PROBABILITY 42

REGION 25

Ig kappa chain V region - human (fragment)

CISpecies: Homo sapiens (man); sequence revision 25-Oct-1996 RevC_change 21-Jan-2000

CIDescription: Feb-1995; sequence revision 25-Oct-1996 RevC_change 21-Jan-2000

R: Megier, S.D.; Lazareto, L.

EUR: J. Immunol. 23, 391-397, 1993

Accession: S34079

Accession: S34079

Accession: S34079

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Accession: S34079

Accession: S34079

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ON protein - protein search, using sw model

Run on: March 15, 2004, 07:42:10 / Search time 34 seconds

(without alignments) (with 393 million cell updates/sec)

File: US-09-620-955b-4

Sequence: 1 CALDIO/RNASEH3/US09-620-955b-4

Scoring table:

Gapop 60.0, Gapexp 60.0

Searched:

Word size: 0

Total number of hits satisfying chosen parameters: 332158

Minimum DB seq length: 109

Maximum DB seq length: 109

Post-processing: Using filter 100 summaries

Database: Published Applications, AA:

- 1: /cgm2.6/prodata/1/pubseq/US07_PUBCOSM.pdb*
- 2: /cgm2.6/prodata/1/pubseq/CT_NH_PTA.pdb*
- 3: /cgm2.6/prodata/1/pubseq/US06_PUBCOSM.pdb*
- 4: /cgm2.6/prodata/1/pubseq/US06_PUBCOSM.pdb*
- 5: /cgm2.6/prodata/1/pubseq/US07_PUBCOSM.pdb*
- 6: /cgm2.6/prodata/1/pubseq/CTOS_PUBCOSM.pdb*
- 7: /cgm2.6/prodata/1/pubseq/US08_PUBCOSM.pdb*
- 8: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
- 9: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
- 10: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
- 11: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
- 12: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
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- 14: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
- 15: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
- 16: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
- 17: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*
- 18: /cgm2.6/prodata/1/pubseq/US09_PUBCOSM.pdb*

Pred. No.: the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the local score distribution.

SUMMARIES

Result	Score	Query	Length	ID	Description
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 89 11 10.1 106 9 US-09-995-288-20
 90 11 10.1 106 9 US-09-995-288-16
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 95 11 10.1 106 9 US-09-995-288-46
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 98 11 10.1 106 9 US-09-995-288-44
 99 11 10.1 106 9 US-09-995-288-155
 100 11 10.1 106 9 US-09-995-288-57

ALIGNMENTS

RESULT 1
 US-10-125-687-27
 Sequence 27, Application US/10/28687
 GENERAL INFORMATION:
 APPLICANT: JACO, Peter
 TITLE OF INVENTION: STRUCTURE-BASED CONSTRUCTION OF HUMAN ANTIBODY LIBRARY
 FILING DATE: 2002-04-17
 CURRENT FILING DATE: 2002-04-17
 CURRENT APPLICATION NUMBER: US/10/125,687
 NUMBER OF SEQ ID NOS: 48
 SEQ ID NO 27: 27 amino acid version 3.1
 LENGTH: 90
 ORGANISM: Homo sapiens

Query Match 25.7% Score 28, DB 14, Length 90;
 Best Local Similarity: 100.0%; Pctd No. 2,4e-19;
 Matches 28; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;
 1 GSHLTPASVSSPGSGITISCTGSSD 28

RESULT 2
 US-10-308-817-99
 Sequence 99, Application US/10/08817
 GENERAL INFORMATION:
 APPLICANT: Rother, Russell
 TITLE OF INVENTION: HUMAN ANTIBODIES
 FILING DATE: 2002-11-03
 CURRENT FILING DATE: 2002-11-03
 CURRENT APPLICATION NUMBER: US/10/308,817
 NUMBER OF SEQ ID NOS: 1
 SEQ ID NO 99
 LENGTH: 99
 ORGANISM: human

Query Match 25.7% Score 28, DB 15, Length 99;
 Best Local Similarity: 100.0%; Pctd No. 2,4e-19;
 Matches 28; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;
 1 GSHLTPASVSSPGSGITISCTGSSD 28

RESULT 3

US-10-308-817-101
 Sequence 101, Application US/10/08817
 GENERAL INFORMATION:
 APPLICANT: Rother, Russell
 TITLE OF INVENTION: HUMAN ANTIBODIES
 FILING DATE: 2002-11-03
 CURRENT FILING DATE: 2002-12-03
 CURRENT APPLICATION NUMBER: US/10/308,817
 NUMBER OF SEQ ID NOS: 195
 SEQ ID NO
 LENGTH: 99
 ORGANISM: human

Query Match 25.7% Score 28, DB 15, Length 99;
 Best Local Similarity: 100.0%; Pctd No. 2,4e-19;
 Matches 28; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;
 1 GSHLTPASVSSPGSGITISCTGSSD 28

RESULT 4
 US-10-127-890-153
 Sequence 153, Application US/10/27890
 GENERAL INFORMATION:
 APPLICANT: Carter, Marc D.
 TITLE OF INVENTION: Compiling Rhodome-Inactivating
 CORRESPONDENCE ADDRESS:
 NUMBER OF SEQUENCES: 173
 CITY: Chicago
 STREET: 500 West Madison Street, 34th Floor
 ZIP: 60661

COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT FILING DATE: 2002-11-03
 CURRENT APPLICATION NUMBER: US/10/127,890
 FILING DATE: 2002-11-03
 CLASSIFICATION: C01N000000
 PRIOR APPLICATION NUMBER: US/08/646,360
 FILING DATE: 13-MAY-1996
 APPLICATION NUMBER: PCT/US94/05348
 FILING DATE: 13-MAY-1993
 APPLICATION NUMBER: US 07/988,430
 FILING DATE: 19-JUN-1992
 APPLICATION NUMBER: US 07/901,707
 FILING DATE: 19-JUN-1992
 APPLICATION NUMBER: US 07/787,567
 FILING DATE: 19-JUN-1992

ATTORNEY/AGENT INFORMATION:
 NAME: McNicholas, Jane M.
 REGISTRATION NUMBER: 52,900-70.74
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/707-8889

TELEPH: 312/707-9155
 TELE: 650 388-1248
 INFORMATION FOR SEQ ID NO: 153:
 SOURCE CHARACTERISTICS:
 ORGANISM: Human
 TYPE: amino acid
 STRANDEDNESS: double
 MOLECULE TYPE: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 153:
 US-10-127-890-153
 Query Match 23.9% Score 26; DB 14; Length 104;
 Best Local Similarity 100.0%; Pred. No. 2.1e-17;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 2 SALTDPASVSPPQSIITICTYGS 27
 2 SALTDPASVSPPQSIITICTYGS 27
 DB 2 SALTDPASVSPPQSIITICTYGS 27
 RESULT 5
 US-10-340-189-17
 Publication No. US20030229201
 GENERAL INFORMATION:
 APPLICANT: Studnicka, Gary M.
 TITLE OF INVENTION: Modified Antibody Variable Domains
 NUMBER OF SEQUENCES: 89
 CORRESPONDENCE ADDRESS:
 ADDRESS: McAndrews, Heald & Malloy, Ltd.
 CITY: Chicago
 STATE: Illinois
 COUNTRY: USA
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 SOFTWARE: IBM PC Compatible
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION NUMBER: US/09/440,189
 APPLICATION DATA:
 APPLICATION NUMBER: US/09/440,189
 CLASSIFICATION DATA:
 PRIOR APPLICATION NUMBER: US/09/445,202A
 APPLICATION NUMBER: US/09/445,202A
 FILING DATE: 23-JUN-1998/82,842
 APPLICATION NUMBER: PCT/US92/10906
 FILING DATE: 07/808/464
 APPLICATION NUMBER: US 07/808/464
 FILING DATE: 13-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janet M. McInnis, Ph.D.
 REFERENCE/DOCKET NUMBER: 11021006/200-71, P1, C3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/707-8889
 INFORMATION FOR SEQ ID NO: 17:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 104 amino acids
 TYPE: amino acid
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 17:
 US-10-340-189-17
 Query Match 23.9% Score 26; DB 15; Length 104;
 Best Local Similarity 100.0%; Pred. No. 2.1e-17;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 2 SALTDPASVSPPQSIITICTYGS 27
 2 SALTDPASVSPPQSIITICTYGS 27
 DB 2 SALTDPASVSPPQSIITICTYGS 27

Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 2 SALTDPASVSPPQSIITICTYGS 27
 2 SALTDPASVSPPQSIITICTYGS 27
 DB 2 SALTDPASVSPPQSIITICTYGS 27
 RESULT 6
 US-10-325-695-17
 Publication No. US20040056501
 GENERAL INFORMATION:
 APPLICANT: Studnicka, Gary M.
 TITLE OF INVENTION: Modified Antibody Variable Domains
 NUMBER OF SEQUENCES: 67
 CORRESPONDENCE ADDRESS:
 ADDRESS: McAndrews, Heald & Malloy, Ltd.
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60661
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 SOFTWARE: IBM PC Compatible
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION NUMBER: US/09/325,695
 APPLICATION DATA:
 APPLICATION NUMBER: US/09/325,695
 FILING DATE: 18-DEC-2002
 CLASSIFICATION DATA:
 PRIOR APPLICATION NUMBER: US/09/397,980
 APPLICATION NUMBER: US/09/397,980
 FILING DATE: 16-JUN-1998
 APPLICATION NUMBER: PCT/US92/10906
 FILING DATE: 07/808/464
 APPLICATION NUMBER: US 07/808/464
 FILING DATE: 13-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janet M. McInnis, Ph.D.
 REFERENCE/DOCKET NUMBER: 11021006/200-71, P1, C3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/707-8889
 INFORMATION FOR SEQ ID NO: 17:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 104 amino acids
 TYPE: amino acid
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 17:
 US-10-325-695-17
 Query Match 23.9% Score 26; DB 15; Length 104;
 Best Local Similarity 100.0%; Pred. No. 2.1e-17;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 2 SALTDPASVSPPQSIITICTYGS 27
 2 SALTDPASVSPPQSIITICTYGS 27
 DB 2 SALTDPASVSPPQSIITICTYGS 27
 RESULT 7
 US-10-326-925-98
 Publication No. US20030119056A1
 GENERAL INFORMATION:
 APPLICANT: Studnicka, Gary M.
 TITLE OF INVENTION: Modified Antibody Variable Domains
 NUMBER OF SEQUENCES: 67
 CORRESPONDENCE ADDRESS:
 ADDRESS: McAndrews, Heald & Malloy, Ltd.
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60661
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 SOFTWARE: IBM PC Compatible
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION NUMBER: US/09/326,925
 APPLICATION DATA:
 APPLICATION NUMBER: US/09/326,925
 FILING DATE: 18-DEC-2002
 CLASSIFICATION DATA:
 PRIOR APPLICATION NUMBER: US/09/397,980
 APPLICATION NUMBER: US/09/397,980
 FILING DATE: 16-JUN-1998
 APPLICATION NUMBER: PCT/US92/10906
 FILING DATE: 07/808/464
 APPLICATION NUMBER: US 07/808/464
 FILING DATE: 13-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janet M. McInnis, Ph.D.
 REFERENCE/DOCKET NUMBER: 11021006/200-71, P1, C3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/707-8889
 INFORMATION FOR SEQ ID NO: 17:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 104 amino acids
 TYPE: amino acid
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 17:
 US-10-326-925-98
 Query Match 23.9% Score 26; DB 15; Length 104;
 Best Local Similarity 100.0%; Pred. No. 2.1e-17;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 2 SALTDPASVSPPQSIITICTYGS 27
 2 SALTDPASVSPPQSIITICTYGS 27
 DB 2 SALTDPASVSPPQSIITICTYGS 27

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CURRENT APPLICATION NUMBER: US/00/026,925
CURRENT FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 99
SOFTWARE: Patent In Ver. 2.1
SEQUENCE LENGTH: 103
TYPE: PRT
ORGANISM: Artificial Sequence
OTHER INFORMATION: Description of Artificial Sequence: 2a5: Ch2 human
OTHER INFORMATION: lambda-chain gene with snufflers in place of CDRs
US-10-026-925-98

Query Match      21.1% Score 23; DB 14; Length 103;
Best Local Similarity 100.0%; Pct. No. 1,6e-14;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 GSAITGPAASGSSPGQSTITTC 23
Db      3 GSAITGPAASGSSPGQSTITTC 25

RESULT 8
US-09-553-222-94
Application US/09563922
Publication No. US2002007923A1
GENERAL INFORMATION:
APPLICANT: H&A, Andrew
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Desirde L.
REGISTRATION NUMBER: 6109981
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-2066
FAX: 650/225-2066
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TOPOLOGICAL INFO:
SEQUENCE DESCRIPTION: SEQ ID NO: 14:

US-09-653-693-14
Query Match      19.3% Score 21; DB 9; Length 50;
Best Local Similarity 100.0%; Pct. No. 7,6e-13;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      72 TALTSLGSLQANADYDSS 92
Db      12 TALTSLGSLQANADYDSS 32

RESULT 10
US-09-653-693-15
Application US/09653993
Patent No. US2002062310A1
GENERAL INFORMATION:
APPLICANT: AARTRON, R.
ATTORNEY/AGENT INFORMATION:
NAME: MERCHANT, A.M.
PREST, L.O.
TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESS: Genentech, Inc.
CITY: South San Francisco
STATE: California
COUNTRY: USA
TELEPHONE: 650/225-2066
FAX: 650/225-2066
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
COMPUTER READABLE FORM:
SEQUENCE LENGTH: 1,44 No floppy disk
SEQUENCE TYPE: 3,5 inch, 1,44 No floppy disk
OPERATING SYSTEM: COMP/OS-DOS
OPERATING SYSTEM: COMP/OS-DOS
SOFTWARE: WinProt (Genentech)
CURRENT APPLICATION DATA:
FILING DATE: 09/07/02
FILING DATE: 23-May-2003
FILING DATE: 09/07/02
CLASSIFICATION: <Chem>
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: 09/07/01,66
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Desirde L.
REGISTRATION NUMBER: 6109981
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-2066
FAX: 650/225-2066
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:

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LENGTH: 50 amino acids
 TYPE: Amino acid
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 15:
 US-09-663-693-15
 Query Match 19.3% Score 21; DB 9; Length 50;
 Best Local Similarity 100.0%; Pred.No. 7-6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 72 TASI781SG10AENDYDYS 92
 12 TASI781SG10AENDYDYS 32
 RESULT 11
 US-09-663-693-16
 Sequence 16: Application US/0963693
 Patent No. US6020620A1
 GENERAL INFORMATION:
 APPLICANT: ANTHON, R.
 INVENTOR: ANTHON, R.
 ATTORNEY: CARTER, P. J.
 MERIDANT, A. M.
 PRESENT METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
 TITLE OF INVENTION: HAVING HETEROIDITMERIC AND COMMON COMPONENTS
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Minitel (Genentech)
 TELEPHONE: 650/952-2961
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 50 amino acids
 TYPE: Amino acid
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 16:
 US-09-663-693-17
 Query Match 19.3% Score 21; DB 9; Length 50;
 Best Local Similarity 100.0%; Pred.No. 7-6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 72 TASI781SG10AENDYDYS 92
 12 TASI781SG10AENDYDYS 32
 RESULT 13
 US-09-663-693-18
 Sequence 18: Application US/0963693
 Patent No. US6020620A1
 GENERAL INFORMATION:
 APPLICANT: ANTHON, R.
 INVENTOR: ANTHON, R.
 ATTORNEY: CARTER, P. J.
 MERIDANT, A. M.
 PRESENT METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
 TITLE OF INVENTION: HAVING HETEROIDITMERIC AND COMMON COMPONENTS
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genetech)
CURRENT APPLICATION NUMBER: US/09/863,693
APPLICATION DATA:
CLASSIFICATION: unknown
PRIOR APPLICATION DATA: 09/070,166
APPLICATION NUMBER: 09/070,166
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Deidre L.
REGISTRATION NUMBER: 16,487
FIRM: HERGENROTHER & LITTON
TELEPHONE: 650/225-2066
TELECOMMUNICATION INFORMATION: P1099RL
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 18:

US-09-863-693-18
SEQUENCE DESCRIPTION: SEQ ID NO: 18:

Query Match      19.3% Score 21: DB 9: Length 50:
Best Local Similarity 100.0% Pval No. 7.6e-13:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

DB      72 TASTISGLCAEDADYDYS 92
12 TASTISGLCAEDADYDYS 32

RESULT 14
US-09-863-693-19
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
APPLICATION DATA: US/09/863,693
GENERAL INFORMATION:
APPLICANT: ARATHON, R.
CARTER, P. J. M.
PREST, L. G.
MERCHANT, A. M.
COUNTRY: USA
TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
NUMBER OF SEQUENCES: 26
SEQUENCE DESCRIPTION: HAVING HETEROLOGIC/ALTERNATE AND COMMON COMPONENTS
CORRESPONDENCE ADDRESS:
ADDRESS: Genetech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genetech)
CURRENT APPLICATION NUMBER: US/09/863,693
APPLICATION DATA:
CLASSIFICATION: unknown
PRIOR APPLICATION DATA: 09/070,166
APPLICATION NUMBER: 09/070,166
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Deidre L.
REGISTRATION NUMBER: 16,487
FIRM: HERGENROTHER & LITTON
TELEPHONE: 650/225-2066
TELECOMMUNICATION INFORMATION: P1099RL
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 20:

US-09-863-693-20
SEQUENCE DESCRIPTION: SEQ ID NO: 20:

Query Match      19.3% Score 21: DB 9: Length 50:
Best Local Similarity 100.0% Pval No. 7.6e-13:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

DB      72 TASTISGLCAEDADYDYS 92
12 TASTISGLCAEDADYDYS 32

INFORMATION FOR SEQ ID NO: 19:
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 20:

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SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-09-863-693-19
SEQUENCE DESCRIPTION: SEQ ID NO: 19:

Query Match      19.3% Score 21: DB 9: Length 50:
Best Local Similarity 100.0% Pval No. 7.6e-13:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

DB      72 TASTISGLCAEDADYDYS 92
12 TASTISGLCAEDADYDYS 32

RESULT 15
US-09-863-693-20
SEQUENCE DESCRIPTION: SEQ ID NO: 20:
APPLICATION DATA: US/09/863,693
GENERAL INFORMATION:
APPLICANT: ARATHON, R.
CARTER, P. J. M.
PREST, L. G.
MERCHANT, A. M.
COUNTRY: USA
TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
NUMBER OF SEQUENCES: 26
SEQUENCE DESCRIPTION: HAVING HETEROLOGIC/ALTERNATE AND COMMON COMPONENTS
CORRESPONDENCE ADDRESS:
ADDRESS: Genetech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genetech)
CURRENT APPLICATION NUMBER: US/09/863,693
APPLICATION DATA:
CLASSIFICATION: unknown
PRIOR APPLICATION DATA: 09/070,166
APPLICATION NUMBER: 09/070,166
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Deidre L.
REGISTRATION NUMBER: 16,487
FIRM: HERGENROTHER & LITTON
TELEPHONE: 650/225-2066
TELECOMMUNICATION INFORMATION: P1099RL
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 20:

US-09-863-693-20
SEQUENCE DESCRIPTION: SEQ ID NO: 20:

Query Match      19.3% Score 21: DB 9: Length 50:
Best Local Similarity 100.0% Pval No. 7.6e-13:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

DB      72 TASTISGLCAEDADYDYS 92
12 TASTISGLCAEDADYDYS 32

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Sequence 21, Application US/0983693
 Patent No. US20020601021
 GENERAL INFORMATION:
 APPLICANT: ARATRON R.
 INVENTOR: P. J. MECHAN, A.M.
 TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 ZIP: 94000
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 FILE NAME: US0983693.DAT
 OPERATING SYSTEM: PC/DOS/MS-DOS
 SOFTWARE: Alapelin (Genentech)
 CURRENT APPLICATION DATA: US/09/663,693
 FILING DATE: 23-May-2001
 CLASSIFICATION: <Unknown>
 PRIORITY APPLICATION DATA: 69/070,166
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Gailay, Deidre L.
 ADDRESS: 1000 California Street
 REFERENCE/SOCKET NUMBER: P109981
 TELEPHONE: 650/225-2066
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 10 amino acids
 TOPOLOGY: Linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 21:
 US-09-663-693-21
 Query Match 19.3% Score 21; DB 9; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7.6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 72 TASTTSGQANDADYCS 92
 DB 12 TASTTSGQANDADYCS 32
 RESULT 11
 US-09-603-22
 Sequence 22, Application US/0983693
 Patent No. US20020601021
 GENERAL INFORMATION:
 APPLICANT: ARATRON R.
 INVENTOR: P. J. MECHAN, A.M.
 TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 ZIP: 94000
 COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 OPERATING SYSTEM: PC/DOS/MS-DOS
 SOFTWARE: Alapelin (Genentech)
 CURRENT APPLICATION DATA: US/09/663,693
 FILING DATE: 23-May-2001
 CLASSIFICATION: <Unknown>
 PRIORITY APPLICATION NUMBER: 69/070,166
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Gailay, Deidre L.
 ADDRESS: 1000 California Street
 REFERENCE/SOCKET NUMBER: P109981
 TELEPHONE: 650/225-2066
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 10 amino acids
 TOPOLOGY: Linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 22:
 US-09-663-693-22
 Query Match 19.3% Score 21; DB 9; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7.6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 72 TASTTSGQANDADYCS 92
 DB 12 TASTTSGQANDADYCS 32
 RESULT 18
 US-09-373-403-14
 Sequence 14, Application US/09373403
 Patent No. US20030207346A1
 GENERAL INFORMATION:
 APPLICANT: ARATRON, N.J.
 APPLICANT: MECHAN, P.J., A.M.
 TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 TITLE REFERENCES: P109981, US/09/663,693
 CURRENT FILING DATE: 1997-08-12
 PRIOR FILING DATE: 1997-05-02
 SEQ ID NO: 14
 LENGTH: 50
 TYPE: PEPT
 FEATURES: Artificial sequence
 OTHER INFORMATION: Recombinant
 US-09-373-403-14
 Query Match 19.3% Score 21; DB 11; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7.6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 72 TASTTSGQANDADYCS 92
 DB 12 TASTTSGQANDADYCS 32
 RESULT 19
 US-09-373-403-15
 Sequence 15, Application US/09373403
 Patent No. US20030207346A1

GENERAL INFORMATION:
 APPLICANT: ABBOTT, M. R.
 APPLICANT: CARTER, P. J.
 APPLICANT: MERCHANT, A. M.
 TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 FILE REFERENCE: P1099C1 A
 PRIOR APPLICATION NUMBER: US 08/373,403
 CURRENT FILING DATE: 1997-05-02
 PRIOR FILING DATE: 1997-05-02
 NUMBER OF SEQ ID NOS: 26
 SEQ ID NO 158
 LENGTH: 50
 TYPE: PRT
 ORGANISM: Artificial sequence
 OTHER INFORMATION: Recombinant
 US-09-373-403-15

Query Match 19.3% Score 21; DB 11; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7,6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 72 TAACTGTCGACGADADYCCSS 92
 12 TAACTGTCGACGADADYCCSS 92

RESULT 20
 US-09-373-403-16
 Sequence 16, Application US/09373403
 Publication No. US20030207346A1
 GENERAL INFORMATION:
 APPLICANT: ABBOTT, M. R.
 APPLICANT: CARTER, P. J.
 APPLICANT: MERCHANT, A. M.
 TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 FILE REFERENCE: P1099C1 A
 PRIOR APPLICATION NUMBER: US/09/373,403
 CURRENT FILING DATE: 1997-05-02
 PRIOR FILING DATE: 1997-05-02
 NUMBER OF SEQ ID NOS: 26
 SEQ ID NO 159
 LENGTH: 50
 TYPE: PRT
 ORGANISM: Artificial sequence
 OTHER INFORMATION: Recombinant
 US-09-373-403-16

Query Match 19.3% Score 21; DB 11; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7,6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 72 TAACTGTCGACGADADYCCSS 92
 12 TAACTGTCGACGADADYCCSS 92

RESULT 21
 US-09-373-403-17
 Sequence 17, Application US/09373403
 Publication No. US20030207346A1
 GENERAL INFORMATION:
 APPLICANT: ABBOTT, M. R.
 APPLICANT: CARTER, P. J.
 APPLICANT: MERCHANT, A. M.
 TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 FILE REFERENCE: P1099C1 A
 PRIOR APPLICATION NUMBER: US/09/373,403
 CURRENT FILING DATE: 1997-05-02
 PRIOR FILING DATE: 1997-05-02
 NUMBER OF SEQ ID NOS: 26
 SEQ ID NO 160
 LENGTH: 50
 TYPE: PRT
 ORGANISM: Artificial sequence
 OTHER INFORMATION: Recombinant
 US-09-373-403-17

Query Match 19.3% Score 21; DB 11; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7,6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 72 TAACTGTCGACGADADYCCSS 92
 12 TAACTGTCGACGADADYCCSS 92

TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 FILE REFERENCE: P1099C1 A
 PRIOR APPLICATION NUMBER: US/09/373,403
 CURRENT FILING DATE: 1997-05-02
 PRIOR FILING DATE: 1997-05-02
 NUMBER OF SEQ ID NOS: 26
 SEQ ID NO 161
 LENGTH: 50
 TYPE: PRT
 ORGANISM: Artificial sequence
 OTHER INFORMATION: Recombinant
 US-09-373-403-17

Query Match 19.3% Score 21; DB 11; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7,6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 72 TAACTGTCGACGADADYCCSS 92
 12 TAACTGTCGACGADADYCCSS 92

RESULT 22
 US-09-373-403-18
 Sequence 18, Application US/09373403
 Publication No. US20030207346A1
 GENERAL INFORMATION:
 APPLICANT: ABBOTT, M. R.
 APPLICANT: CARTER, P. J.
 APPLICANT: MERCHANT, A. M.
 TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 FILE REFERENCE: P1099C1 A
 PRIOR APPLICATION NUMBER: US/09/373,403
 CURRENT FILING DATE: 1997-05-02
 PRIOR FILING DATE: 1997-05-02
 NUMBER OF SEQ ID NOS: 26
 SEQ ID NO 162
 LENGTH: 50
 TYPE: PRT
 ORGANISM: Artificial sequence
 OTHER INFORMATION: Recombinant
 US-09-373-403-18

Query Match 19.3% Score 21; DB 11; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7,6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 72 TAACTGTCGACGADADYCCSS 92
 12 TAACTGTCGACGADADYCCSS 92

RESULT 23
 US-09-373-403-19
 Sequence 19, Application US/09373403
 Publication No. US20030207346A1
 GENERAL INFORMATION:
 APPLICANT: ABBOTT, M. R.
 APPLICANT: CARTER, P. J.
 APPLICANT: MERCHANT, A. M.
 TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 FILE REFERENCE: P1099C1 A
 PRIOR APPLICATION NUMBER: US/09/373,403
 CURRENT FILING DATE: 1997-05-02
 PRIOR FILING DATE: 1997-05-02
 NUMBER OF SEQ ID NOS: 26
 SEQ ID NO 163
 LENGTH: 50
 TYPE: PRT
 ORGANISM: Artificial sequence
 OTHER INFORMATION: Recombinant
 US-09-373-403-19

Query Match 19.3% Score 21; DB 11; Length 50;
 Best Local Similarity 100.0%; Pred. No. 7,6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 72 TAACTGTCGACGADADYCCSS 92
 12 TAACTGTCGACGADADYCCSS 92

PRIOR APPLICATION NUMBER: US 04/850,058
 PRIOR FILING DATE: 1997-05-02
 NUMBER OF SEQ ID NOS: 26
 SEQ ID NO 19
 TYPE: PART
 ORGANISM: Artificial sequence
 FEATURE: INFORMATION: Recombinant
 US-09-373-403-19

Query Match Similarity: 19.3%; Score 21; DB 11; Length 50;
 Best Local Similarity: 100.0%; Pval: 7.6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 72 TAAATISGLQAEADYDCSS 92
 DB 12 TAAATISGLQAEADYDCSS 32

FIGURE 34
 US-09-373-403-20

/ Sequence 20, Application US/09373403
 / GENERAL INFORMATION: US/09373403
 / APPLICANT: ABATTOON, M. R.
 / APPLICANT: CAMTER, P.J.
 / APPLICANT: MERCHANT, A.M.
 / APPLICANT: MERCHANT, A.M.
 / TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 / FILE REFERENCE: P1099C.1
 / CURRENT FILING DATE: 1999-08-13
 / PRIOR APPLICATION NUMBER: US 08/850,058
 / PRIOR FILING DATE: 1997-05-02
 / SEQ ID NO 20
 / LENGTH: 50
 / TYPE: PART Artificial sequence
 / ORGANISM: Artificial sequence
 / FEATURE: INFORMATION: Recombinant
 / OTHER INFORMATION: Unknown amino acid
 US-09-373-403-20

Query Match Similarity: 19.3%; Score 21; DB 11; Length 50;
 Best Local Similarity: 100.0%; Pval: 7.6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 72 TAAATISGLQAEADYDCSS 92
 DB 12 TAAATISGLQAEADYDCSS 32

RESULT 25
 US-09-373-403-21

/ Sequence 21, Application US/09373403
 / GENERAL INFORMATION: US/09373403
 / APPLICANT: ABATTOON, M. R.
 / APPLICANT: CAMTER, P.J.
 / APPLICANT: MERCHANT, A.M.
 / APPLICANT: MERCHANT, A.M.
 / TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
 / FILE REFERENCE: P1099C.1
 / CURRENT FILING DATE: 1999-08-13
 / PRIOR APPLICATION NUMBER: US 09/373,403
 / PRIOR FILING DATE: 1997-05-02
 / SEQ ID NO 21
 / LENGTH: 50
 / TYPE: PART Artificial sequence
 / ORGANISM: Artificial sequence
 / FEATURE: INFORMATION: Recombinant
 / OTHER INFORMATION: Recombinant
 US-09-373-403-21

Query Match Similarity: 19.3%; Score 21; DB 11; Length 50;
 Best Local Similarity: 100.0%; Pval: 7.6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 72 TAAATISGLQAEADYDCSS 92
 DB 12 TAAATISGLQAEADYDCSS 32

NUMBER OF SEQ ID NOS: 26
 SEQ ID NO 21
 LENGTH: 50
 TYPE: PART Artificial sequence
 ORGANISM: Artificial sequence
 FEATURE: INFORMATION: Recombinant
 US-09-373-403-21

Query Match Similarity: 19.3%; Score 21; DB 11; Length 50;
 Best Local Similarity: 100.0%; Pval: 7.6e-13;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 72 TAAATISGLQAEADYDCSS 92
 DB 12 TAAATISGLQAEADYDCSS 32

Search completed: March 15, 2004, 07:45:17
 Job time : 35 secs

GenDore version 5.1.6
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OM protein - protein search, using SW model

Run on: March 15, 2004, 07:39:39 : Search time 38 seconds

965,099 Million call updates/sec

Title: US-09-620-955B-4

1. CALTGALPAGVSGPGSGIT.....CGSANGPPLDGTATVTL 109

Perfect score: 1.0

Sequence: 107041 seqs, 31551202 residues

Scoring table: GAPPO 60.0, GAPCAP 60.0

Word size: 0

Total number of hits satisfying chosen parameters: 19917

Minimum DB seq length: 0

Maximum DB seq length: 109

Post-processing: Listing first 100 summaries

Database: **SPRNOG_35***

1: sp. archae*
2: sp. bacteri*
3: sp. human*
4: sp. human*
5: sp. invetebrate*
6: sp. mammal*
7: sp. mammal*
8: sp. organell*
9: sp. phage*
10: sp. plant*
11: sp. virus*
12: sp. virus*
13: sp. vertebrate*
14: sp. unclassified*
15: sp. bacteri*
16: sp. bacteri*
17: sp. archae*
18: sp. archae*

Spred No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match length	DB ID	Description
1	10.1	17	4	Q9UC72	Q9UC72 homo sapien
2	10	9.2	81	Q72258	Q72258 homo sapien
3	10	9.2	107	Q9UC14	Q9UC14 homo sapien
4	10	9.2	107	Q9UC14	Q9UC14 homo sapien
5	10	9.2	107	Q9UC14	Q9UC14 homo sapien
6	10	9.2	107	Q9UC14	Q9UC14 homo sapien
7	10	9.2	107	Q9UC14	Q9UC14 homo sapien
8	10	9.2	107	Q9UC14	Q9UC14 homo sapien
9	10	9.2	107	Q9UC14	Q9UC14 homo sapien
10	10	9.2	107	Q9UC14	Q9UC14 homo sapien
11	10	9.2	107	Q9UC14	Q9UC14 homo sapien
12	10	9.2	107	Q9UC14	Q9UC14 homo sapien
13	10	9.2	107	Q9UC14	Q9UC14 homo sapien
14	10	9.2	107	Q9UC14	Q9UC14 homo sapien
15	10	9.2	107	Q9UC14	Q9UC14 homo sapien
16	10	9.2	107	Q9UC14	Q9UC14 homo sapien
17	10	9.2	107	Q9UC14	Q9UC14 homo sapien
18	10	9.2	107	Q9UC14	Q9UC14 homo sapien
19	10	9.2	107	Q9UC14	Q9UC14 homo sapien
20	10	9.2	107	Q9UC14	Q9UC14 homo sapien
21	10	9.2	107	Q9UC14	Q9UC14 homo sapien
22	10	9.2	107	Q9UC14	Q9UC14 homo sapien
23	10	9.2	107	Q9UC14	Q9UC14 homo sapien
24	10	9.2	107	Q9UC14	Q9UC14 homo sapien
25	10	9.2	107	Q9UC14	Q9UC14 homo sapien
26	10	9.2	107	Q9UC14	Q9UC14 homo sapien
27	10	9.2	107	Q9UC14	Q9UC14 homo sapien
28	10	9.2	107	Q9UC14	Q9UC14 homo sapien
29	10	9.2	107	Q9UC14	Q9UC14 homo sapien
30	10	9.2	107	Q9UC14	Q9UC14 homo sapien
31	10	9.2	107	Q9UC14	Q9UC14 homo sapien
32	10	9.2	107	Q9UC14	Q9UC14 homo sapien
33	10	9.2	107	Q9UC14	Q9UC14 homo sapien
34	10	9.2	107	Q9UC14	Q9UC14 homo sapien
35	10	9.2	107	Q9UC14	Q9UC14 homo sapien
36	10	9.2	107	Q9UC14	Q9UC14 homo sapien
37	10	9.2	107	Q9UC14	Q9UC14 homo sapien
38	10	9.2	107	Q9UC14	Q9UC14 homo sapien
39	10	9.2	107	Q9UC14	Q9UC14 homo sapien
40	10	9.2	107	Q9UC14	Q9UC14 homo sapien
41	10	9.2	107	Q9UC14	Q9UC14 homo sapien
42	10	9.2	107	Q9UC14	Q9UC14 homo sapien
43	10	9.2	107	Q9UC14	Q9UC14 homo sapien
44	10	9.2	107	Q9UC14	Q9UC14 homo sapien
45	10	9.2	107	Q9UC14	Q9UC14 homo sapien
46	10	9.2	107	Q9UC14	Q9UC14 homo sapien
47	10	9.2	107	Q9UC14	Q9UC14 homo sapien
48	10	9.2	107	Q9UC14	Q9UC14 homo sapien
49	10	9.2	107	Q9UC14	Q9UC14 homo sapien
50	10	9.2	107	Q9UC14	Q9UC14 homo sapien
51	10	9.2	107	Q9UC14	Q9UC14 homo sapien
52	10	9.2	107	Q9UC14	Q9UC14 homo sapien
53	10	9.2	107	Q9UC14	Q9UC14 homo sapien
54	10	9.2	107	Q9UC14	Q9UC14 homo sapien
55	10	9.2	107	Q9UC14	Q9UC14 homo sapien
56	10	9.2	107	Q9UC14	Q9UC14 homo sapien
57	10	9.2	107	Q9UC14	Q9UC14 homo sapien
58	10	9.2	107	Q9UC14	Q9UC14 homo sapien
59	10	9.2	107	Q9UC14	Q9UC14 homo sapien
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64	10	9.2	107	Q9UC14	Q9UC14 homo sapien
65	10	9.2	107	Q9UC14	Q9UC14 homo sapien
66	10	9.2	107	Q9UC14	Q9UC14 homo sapien
67	10	9.2	107	Q9UC14	Q9UC14 homo sapien
68	10	9.2	107	Q9UC14	Q9UC14 homo sapien
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70	10	9.2	107	Q9UC14	Q9UC14 homo sapien
71	10	9.2	107	Q9UC14	Q9UC14 homo sapien
72	10	9.2	107	Q9UC14	Q9UC14 homo sapien
73	10	9.2	107	Q9UC14	Q9UC14 homo sapien
74	10	9.2	107	Q9UC14	Q9UC14 homo sapien
75	10	9.2	107	Q9UC14	Q9UC14 homo sapien
76	10	9.2	107	Q9UC14	Q9UC14 homo sapien
77	10	9.2	107	Q9UC14	Q9UC14 homo sapien
78	10	9.2	107	Q9UC14	Q9UC14 homo sapien
79	10	9.2	107	Q9UC14	Q9UC14 homo sapien
80	10	9.2	107	Q9UC14	Q9UC14 homo sapien
81	10	9.2	107	Q9UC14	Q9UC14 homo sapien
82	10	9.2	107	Q9UC14	Q9UC14 homo sapien
83	10	9.2	107	Q9UC14	Q9UC14 homo sapien
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85	10	9.2	107	Q9UC14	Q9UC14 homo sapien
86	10	9.2	107	Q9UC14	Q9UC14 homo sapien
87	10	9.2	107	Q9UC14	Q9UC14 homo sapien
88	10	9.2	107	Q9UC14	Q9UC14 homo sapien
89	10	9.2	107	Q9UC14	Q9UC14 homo sapien

91	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
92	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
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94	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
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173	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
174	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
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176	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
177	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
178	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
179	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
180	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
181	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
182	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
183	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
184	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
185	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
186	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
187	9.1	Q9UC18	Q9UC18	Q9UC18	Q9UC18
188	9.				


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BI 1 Immunol 161:2020-2021(1998).
DR EMBL: U96356; AAA87965.1; -.
DR PIR: B43047; B43047.1; -.
DR PIR: S34983; S34983.1; -.
DR EMBL: AF030383; AF030383.1; -.
DR InterPro: IP000310; 19-11kx.
DR InterPro: IP000356; 19-11kx.
DR Pfam: PF00047; 19-11kx.
DR SMART: SM00467; 19-11kx.
DR PROSITE: PS0085; 19-11kx.
FT NON-TER 107 1
FT SEQUENCE 107 AA; 11520 MW; 48B435C5B57716 CRC64;
Query Match 9.2%; Score 10; DB 4; Length 107;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 42 PGMAPPYL 51
DB 40 EEDADYVC 49

RESULT 5
ID88 CONSD6 PRELIMINARY; PRT; 107 AA.
AC GNSD6
DT 01-OCT-2003 (TRMBLrel: 15, Created)
DT 01-OCT-2003 (TRMBLrel: 15, Last sequence update)
DT 01-OCT-2003 (TRMBLrel: 25, Last annotation update)
DB Hypothetical protein (fragment).
DB Homo sapiens (human) Consd6a, Crn16a; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Carnivora; Homiidae; Homo;
NCBI_TaxID:9606;
SF SEQUENCE FROM N.A.
RC ISSUED-LYPHOCYTES;
RA Hochmann A.;
RT Submitted (U-1955) to the EMBL/GenBank/DBJ databases.
DR EMBL: L43092; AA63746.2; -.
DR HSRF: P01793; 2MCO.
DR InterPro: IP000356; 19-11kx.
DR Pfam: PF00047; 19-11kx.
DR SMART: SM00466; 19-11kx.
DR PROSITE: PS0085; 19-11kx.
FT NON-TER 107 1
FT SEQUENCE 107 AA; 11306 MW; AAB0A8B378D5F0 CRC64;
Query Match 9.2%; Score 10; DB 4; Length 107;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 81 QAEEDAYVC 90
DB 76 QAEEDAYVC 85

RESULT 6
ID976 PRELIMINARY; PRT; 93 AA.
AC Q9776
DT 01-MAY-2000 (TRMBLrel: 13, Created)
DT 01-MAY-2000 (TRMBLrel: 13, Last sequence update)
DT 01-MAY-2000 (TRMBLrel: 13, Last annotation update)
DB Myosin-reactive immunoglobulin light chain variable region
DB (fragment).
DB Homo sapiens (human) Consd6a, Crn16a; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Carnivora; Homiidae; Homo;
NCBI_TaxID:9606;

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CX NCBI_TaxID:9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=867713; PubMed=9614934; Kalls N.K., Besseny S.M.,
SA Young D.C.B., Van der Merwe P.L.,
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT status."
DB EMBL: AF030383; AF030383.1; -.
DR HSRF: P01793; 2MCO.
DR InterPro: IP000310; 19-11kx.
DR InterPro: IP000356; 19-11kx.
DR Pfam: PF00047; 19-11kx.
DR SMART: SM00467; 19-11kx.
DR PROSITE: PS0085; 19-11kx.
FT NON-TER 93 93
FT SEQUENCE 93 AA; 9556 MW; 2F3CF6FA6690AF CRC64;
Query Match 7.3%; Score 8; DB 4; Length 93;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 83 EEDADYVC 90
DB 67 EEDADYVC 74

RESULT 7
ID81208 PRELIMINARY; PRT; 101 AA.
AC Q81208
DT 01-MAR-2003 (TRMBLrel: 23, Created)
DT 01-MAR-2003 (TRMBLrel: 23, Last sequence update)
DT 01-MAR-2003 (TRMBLrel: 23, Last annotation update)
DB Anti-thyroglobulin single chain Py from SLE patient by Phage Display.
DB Homo sapiens (human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC NCBI_TaxID:9606;
RA [1]
RT Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
RE Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF000599; 19-11kx.
DR InterPro: IP000310; 19-11kx.
DR InterPro: IP000356; 19-11kx.
DR Pfam: PF00047; 19-11kx.
DR SMART: SM00463; 19-11kx.
DR SMART: SM00463; 19-11kx.
DR PROSITE: PS0085; 19-11kx.
FT NON-TER 101 101
FT SEQUENCE 101 AA; 10374 MW; 1506CD39ACBA793 CRC64;
Query Match 7.3%; Score 8; DB 4; Length 101;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 23 NYNAYQQ 40
DB 22 NYNAYQQ 29

RESULT 8
ID9142 PRELIMINARY; PRT; 107 AA.
AC Q9142
DT 01-MAY-2000 (TRMBLrel: 13, Created)

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DT 01-MAY-2000 (TRENBERG) 13, Last sequence update)
 DT 01-OCT-2003 (TRENBERG) 25, Last annotation update)
 DE Myosin-reactive immunoglobulin light chain variable region
 (Fragment)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NCBI_TaxID=9606;
 RP MEDLINE=9627133; PubMed=9614934;
 RA Wu X, Dui B, van der Werf P.L., Kalle N.N., Bernay S.N.,
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
 RT fetus";
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).
 DR HSBP; P01703; TRENBERG; 15-1like.
 DR Interpro; IPR007110; 15-1like.
 DR Pfam; PF00477; 19; 1.
 DR SMART; SM00406; I07; 1.
 DR PROSITE; PS50835; IG_LIKE; 1.
 FT NON_TER 107
 SQ SEQUENCE 107 AA; 1145 MW; 5290C1A26821DC CRC64;
 Query Match 7.3% Score 8; DB 4;
 Best Local Similarity 100.0%; Pred. No. 2; 6;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CQ 83 PROSITE 90
 DB 80 EMBL 87
 RESULT 9
 Q6580 PRELIMINARY; PRT; 108 AA.
 ID Q6580
 DT 01-DEC-2001 (TRENBERG) 19, Created
 DT 01-DEC-2001 (TRENBERG) 19, Last annotation update)
 DT 01-OCT-2003 (TRENBERG) 25, Last sequence update)
 DE Myosin-reactive immunoglobulin lambda light chain
 DE variable region (fragment)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NCBI_TaxID=9606;
 RP MEDLINE=9627133; PubMed=9614934;
 RA Wu X, Dui B, van der Werf P.L., Kalle N.N., Bernay S.N.,
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
 RT fetus";
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).
 DR HSBP; P01703; TRENBERG; 15-1like.
 DR Interpro; IPR007110; 15-1like.
 DR Pfam; PF00477; 19; 1.
 DR SMART; SM00406; I07; 1.
 DR PROSITE; PS50835; IG_LIKE; 1.
 FT NON_TER 108
 SQ SEQUENCE 108 AA; 11599 MW; F485DC78M043F48 CRC64;
 Query Match 7.3% Score 8; DB 4;
 Best Local Similarity 100.0%; Pred. No. 2; 6;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CQ 63 PROSITE 70

DB 62 R5385G 69
 RESULT 10
 ID Q6585
 DT 01-MAY-2000 (TRENBERG) 13, Created
 DT 01-OCT-2003 (TRENBERG) 25, Last annotation update)
 DE Myosin-reactive immunoglobulin kappa chain variable region
 (Fragment)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NCBI_TaxID=9606;
 RP MEDLINE=9627133; PubMed=9614934;
 RA Wu X, Dui B, van der Werf P.L., Kalle N.N., Bernay S.N.,
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
 RT fetus";
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).
 DR HSBP; P01703; TRENBERG; 15-1like.
 DR Interpro; IPR007110; 15-1like.
 DR Pfam; PF00477; 19; 1.
 DR SMART; SM00406; I07; 1.
 DR PROSITE; PS50835; IG_LIKE; 1.
 FT NON_TER 109
 SQ SEQUENCE 109 AA; 11761 MW; FB143B77AFACCC CRC64;
 Query Match 6.4% Score 7; DB 4;
 Best Local Similarity 100.0%; Pred. No. 30;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CQ 99 PROSITE 105
 DB 99 PROSITE 105
 RESULT 11
 ID Q6578
 DT 01-MAY-2000 (TRENBERG) 13, Created
 DT 01-OCT-2003 (TRENBERG) 25, Last annotation update)
 DE Myosin-reactive immunoglobulin light chain variable region
 (Fragment)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NCBI_TaxID=9606;
 RP MEDLINE=9627133; PubMed=9614934;
 RA Wu X, Dui B, van der Werf P.L., Kalle N.N., Bernay S.N.,
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
 RT fetus";
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).
 DR HSBP; P01703; TRENBERG; 15-1like.
 DR Interpro; IPR007110; 15-1like.
 DR Pfam; PF00477; 19; 1.
 DR SMART; SM00406; I07; 1.
 DR PROSITE; PS50835; IG_LIKE; 1.
 FT NON_TER 109
 SQ SEQUENCE 109 AA; 11761 MW; FB143B77AFACCC CRC64;
 Query Match 6.4% Score 7; DB 4;
 Best Local Similarity 100.0%; Pred. No. 30;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CQ 99 PROSITE 105

GN ACRO.

(Y) \mathcal{G}^2

[illegible]


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SEQUENCE
ID: LYS5A_HUMAN STANDARD; PRT; 108 AA.
AC P01191;
CD 1-108; 1-108 (rel. 01, Created)
DT 21-JUL-1986 (rel. 01, Last sequence update)
DR 10-OCT-2003 (rel. 42, Last annotation update)
DE 1g lambda chain V.V. region DEL.
OS Homo sapiens (human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
NX NCBI_taxid=9606;
PR SEQUENCE.
RX MEDLINE=7511279; PubMed=453363;
RT 1g lambda subgroup of human L-chain of the lambda-type. Primary
RL Eur. J. Biochem. 50:49-69(1974).
CC -1- MISCELLANEOUS: THIS IS THE FIRST SEQUENCED V REGION OF LAMBDA
CC -1- MISCELLANEOUS: THIS IS THE FIRST SEQUENCED V REGION OF LAMBDA
CC -1- SIMILARITY: Contains 1 immunoglobulin-like domain.
CC -1- SIMILARITY: LAMBDA.
CC -1- SIMILARITY: LAMBDA.
DR GO: GO:0005576; C:cytosol; NAS.
DR GO: GO:0005233; F:antigen binding; NAS.
DR GO: GO:0005557; F:immune response; NAS.
DR InterPro: IPRO03596; 12 v.
DR Pfam: PF00047; 197.1.
DR SMART: SM00465; 197.1.
DR PROSITE: PS00383; 197.1.
KW Immunoglobulin V region; Bence-Jones protein.
FT DOMAIN 108 197
FT NM_001108.1 IC-LIKE.
SQ
SEQUENCE 108 AA; 11342 MW; 5888EDC09C8451 CRC64;

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Query Match 6.48; Score 7; DB 1; Length 108;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Job time : 19 sec

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QV 84 DEDRYTC 90
DB 80 DEDRYTC 86

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